



Soft capsule encapsulation machine

CUBE will be an exemplary company satisfying your needs by continuous R&D efforts.



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THINKING ABOUT THE PAST, THE PRESENT AND THE FUTURE, AND CREATING A NEW PARADIGM

As small pieces gather to form a single cube, our company CUBE integrates various values such as employee-respecting, continuous development, trustworthy product, and customer satisfaction.

CUBE Group was founded in 2007, starting as DCM KOREA, a company that manufactures equipment for encapsulation machine line.

We will continuously move on to be a greater company, a company that realizes its values, and a company that represents and promotes Korean manufacturing industry.

And once again, CUBE GEL will be leading the way for soft capsule solutions.



COMMITMENT UNIQUE BRIGHT EFFORT

With a **commitment** of master craftsman,
and a **unique** devotion to our customers,
like a **bright** light in the world,
we CUBE promise to make every **effort**.

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We will continuously move on to be a greater company, a company that realizes its values, and a company that represents and promotes Korean manufacturing industry.

And once again, CUBE GEL will be leading the way for soft capsule solutions.

2007

- Establishment of DCM KOREA

2011

- Vegetable soft capsule machine,
T-150V

2012

- Laser marking system for
engraving letters on soft capsules,
L-5

2013

- Establishment of CUBE Group

2014

- Construction of a new factory

2015

- Machine with Interior Self-control
of Humidity & Temperature,
GENESYS NH-015
- Tablet in Soft capsule machine
T-150TS

2017

- Seamless capsule machine with
6 nozzles SL-6
- Seamless soft capsule machine,
S-1 at INTERPACK

2018

- Seamless soft capsule machine,
S-1 at AICHEMA
- CIP tumble dryer and colloid
mixer at KOREA PACK

2019

- Company name changed from
CUBE DCM KOREA to CUBE GEL
- Provide all-round services in the
production technology of
soft capsules

2020

- Launched CUBE brand vege
raw materials

2021

- Launched Twin soft
capsule machine

2023

- Launched NOAH

CREATING A NEW WAY IS DIFFICULT, BUT IT IS OUR MISSION

Since CUBE DCM KOREA was founded in 2007, we have been continuously trying to develop new machines using new technologies and to be a global leader who strives for public health through contribution to pharmaceutical and food industry.

Based on our mission, we promise to develop high-quality products and services to satisfy our customers and to be a business leader in a true sense.

We would sincerely appreciate your continued patronage for our endless challenge and innovation.



THE PAST, THE PRESENT AND THE FUTURE

The past, the present and the future are connected in a line. The traces we have passed let us know our way forward. Since we made the first step to contribute to human health in 2007, the vision has led CUBE to passionately contribute to public health by developing creative and innovative technology.



CUSTOMER SATISFACTION

CUBE GEL will take the lead in promoting human health and standard of living, while trying to produce high-quality products. We will do our best to catch what customers want and perfectly satisfy their needs.



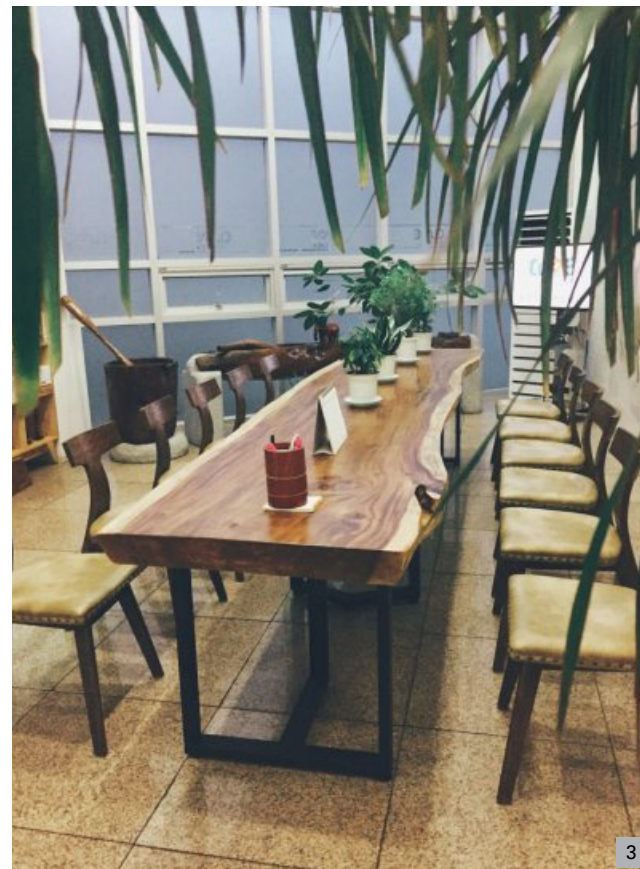
QUALITY ASSURANCE

We will put a consistent effort to observe a high-quality standard, thereby ensuring that our customers enjoy the benefits that the machines of CUBE GEL give for a long time.



CUBE GEL PHOTO

- 1. Company interior
- 2. COPHEX 2018
- 3. lobby
- 4. Patent
- 5. lobby
- 6. Innovation room
- 7. Coffee room
- 8. CUBE GEL Rose
- 9. Company yard

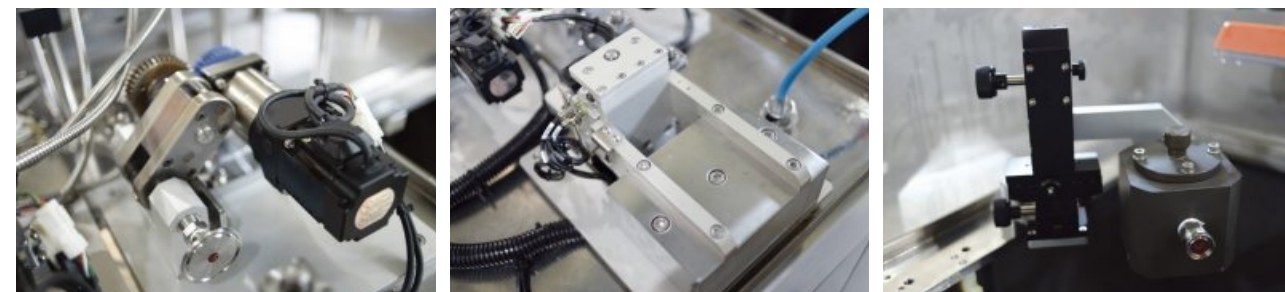


SEAMLESS CAPSULE MACHINE FOR R&D

S-1

Model S-1 is a perfect solution for your R&D of seamless capsule, even with just one single machine. Seamless capsules, a type of soft capsule, are made by utilizing the principle of interfacial tension of liquid. The capsules consist of one single shape - sphere, due to their method of manufacture, but literally, they are "seamless," since they have no sealing line on their surface.

A seamless capsule can preserve the active ingredient of its contents until just before use, and prevent the content's odor from leaking out. Furthermore, unlike other types of capsules, a seamless capsule can be produced using more various kinds of material such as gelatin, agar, or vegetable material.



LIST	MODEL S-1	
Output (Approx.)	Ø 3mm	35 Caps per 1s / 126,000 caps per 1h.
	Ø 9mm	7 Caps per 1s / 25,200 caps per 1h.
LIST	MODEL S-1	
Capsule Shape / Size	Round / Ø 1 ~ 12mm	
Type of Soft Capsule	Gelatin, Vegetable, Agar	
Power Consumption	Approx. 8kW	
Control	Touch Screen / PLC	
Dimensions / Weight (Approx.)	1,300(L) x 1,170(W) x 2,270(H)mm / 900kg	
Electricity	380V, 3Phase, 50/60 HZ	

Two Gear-pumping System

Pumping the material by servo motor's control from each hopper (shell & filling) to vibrator nozzle.

Vibrating System

Vibrating for cutting & dropping the material for seamless capsules. Product varies according to the speed & position of the vibrator.

Double-layer Nozzle System

Nozzle for forming seamless capsules. Its 2 (inner & outer) layers lead to produce seamless capsules.

SPECIAL FEATURE

1. No shell material waste. (Wastage: Approx. 2%)
2. Can be used in various industries. (cosmetic, food, pharmaceutical)
3. Can prevent the content's odor from leaking out of the shell.
4. Low-noise design.
5. Compact design for narrow spaces.
6. Product-contact parts conforming to current GMP material standards.
7. PLC control with an easy-to-use touch-screen monitor.
8. The machine can be manufactured to be equipped with 2~6 nozzles, for commercial production purpose.

SOFT CAPSULE MACHINE WITH SAFETY COVER FOR LABORATORY

NOAH

The servo soft capsule machine model NOAH, is a fully automatic machine for producing soft gelatin capsules. It is driven by servo motors and designed as an enclosed type machine with air conditioning system.

Burden-free research by minimizing medicine and gelatin consumption suitable for laboratory and new medicine development.

Filling volume adjustment and zero-point setting for each die roll are precisely controlled by servo motors based on the set values of touch-screen. Its PC type touch-screen monitor provides an effective production management.



Classification of Die	Capsule Type	Output (Hour)
Oval #12	Gelatin	2,640Capsules

LIST	MODEL NOAH
Capsule Shape / Size	Round, Oval, Oblong, etc
Type of Soft Capsule	Gelatin
Die Roll Size	Ø102.8 x 80mm
Power Consumption	Approx.17kW (Main machine only)
Air Pressure	6kg f/m ²
Control	Touch Screen / PLC
Dimensions /Weight(Approx.)	2,350(L) x 1,738(W) x 2,150(H)mm / 1,800kg
Electricity	380V, 3Phase, 50/60 HZ

Die Roll Housing

Part for soft capsule forming, filling, sealing & cutting.

Fully closed Cover

It can protect the safety of operators and effectively control temperature and humidity.

Servo Feeding & Non-Hopper design

2 piston on left & right side each, for an exact feeding of filling material into the wedge. filling volume adjustment according to servo control.

* No Hopper design, to achieve the minimum amount of medication filling

Built-in tumble dryer

Self-drying at once with the built-in tumble dryer

Air conditioning system

Configure a perfect production environment with its own air conditioning system, Even in research rooms without air conditioning or in environments where air conditioning is not smooth, production can still be carried out.

Spreader Box

Air bladder for controlling the material level in the spreader box.

Lubrication Rollers(4) & Guided Rollers(6)

Diagonal position type rollers.

SPECIAL FEATURE

1. Configure a perfect production environment with its own air conditioning system.
2. Burden-free research by minimizing medicine and gelatin consumption.
3. Self-drying at once with the built-in tumble dryer.
4. Realization of new product development and registration at minimum cost
5. Reduction of additional time through easy parts replacement and cleaning .
6. Optimal design applied only for research and development of soft capsules.

SERVO SOFT CAPSULE MACHINE

F-150G

The servo soft capsule machine model F-150G, is a fully automatic machine for producing soft capsules. It is driven by servo motors and provides a good solution for mass production with a production speed of 6 RPM.

Filling volume adjustment and zero-point setting for each die roll are precisely controlled by servo motors based on the set values of touch-screen. Its PLC touch-screen monitor provides an effective production management.



SPECIAL FEATURE

1. Easy to operate using touch-screen control system.
2. Precise filling material volume control by servo.
3. Automatic die roll alignment & injection timing by servo.
4. Save function for saving the production set values for each product.
5. F150GV can produce both gelatin capsules and vegetable capsules.

Classification of Die	Capsule Type	Output (Hour)
Round #3	Vegetable	61,200Capsules
	Gelatin	186,480Capsules
Oval #5	Vegetable	41,106Capsules
	Gelatin	147,420Capsules
Oval #7.5	Vegetable	34,272Capsules
	Gelatin	110,250Capsules
Oval #10	Vegetable	34,272Capsules
	Gelatin	107,100Capsules
Oblong #12	Vegetable	23,664Capsules
	Gelatin	73,500Capsules
Oblong #20	Vegetable	19,278Capsules
	Gelatin	64,260Capsules
Oblong #22	Vegetable	18,564Capsules
	Gelatin	53,760Capsules

LIST	MODEL F-150G
Capsule Shape / Size	Round, Oval, Oblong, etc
Type of Soft Capsule	Vegetable, Gelatin
Die Roll Size	Ø150 x 290mm
Power Consumption	F150G: Approx.25kW / F150GV: Approx.28kW (Main machine only)
Air Pressure	6kg f/m ²
Control	Touch Screen / PLC
Dimensions /Weight (Approx.)	3,000(L) x 1,250(W) x 2,000(H)mm / 2,300kg
Electricity	380V, 3Phase, 50/60 HZ

Die Roll Housing

Part for soft capsule forming, filling, sealing & cutting.
Automatic zeropoint alignment & injection timing control by servo motor with touchscreen.

Feeding Device & Hopper

12 piston nozzles on left & right side each, for an exact feeding of filling material into the wedge. Feeding device is driven by servo motor for a precise filling volume adjustment, based on the set values of touch-screen.

* Hopper Heater: 300W x 2, double jacket, impeller included

Spreader Box

Automatic gelatin material level control by sensor & cylinder system.

Lubrication Rollers(4) & Guide Rollers(6)

Horizontal position type rollers.

Drum

Forming station, equipped with air blower filters, water cooling system, and built-in type chiller

SERVO SOFT CAPSULE MACHINE

F-100

The servo soft capsule machine model F-100, is a fully automatic machine for producing soft gelatin capsules. It is driven by servo motors and provides a good solution for small and medium-sized production.

Filling volume adjustment and zero-point setting for each die roll are precisely controlled by servo motors based on the set values of touch-screen. Its PLC type touch-screen monitor provides an effective production management.



Classification of Die	Capsule Type	Output (Hour)
Round #3	Vegetable	18,900Capsules
	Gelatin	49,920Capsules
Oval #5	Vegetable	11,340Capsules
	Gelatin	41,472Capsules
Oval #7.5	Vegetable	10,260Capsules
	Gelatin	32,256Capsules
Oval #10	Vegetable	8,550Capsules
	Gelatin	30,912Capsules
Oblong #12	Vegetable	7,110Capsules
	Gelatin	23,040Capsules
Oblong #20	Vegetable	4,860Capsules
	Gelatin	17,664Capsules
Oblong #22	Vegetable	18,900Capsules
	Gelatin	49,920Capsules

LIST	MODEL F-100
Capsule Shape/Size	Round, Oval, Oblong, etc
Type of Soft Capsule	Gelatin
Die Roll Size	Ø102.8 x 152.5mm
Power Consumption	F100: Approx.25kW / F100V: Approx.28kW (Main machine only)
Air Pressure	6kg f/m ²
Control	Touch Screen / PLC
Dimensions /Weight(Approx.)	2,350(L) x 1,738(W) x 2,150(H)mm / 1,650kg
Electricity	380V, 3Phase, 50/60 HZ

Die Roll Housing

Part for soft capsule forming, filling, sealing & cutting.

Feeding Device & Hopper

5 piston nozzles on left & right side each, for an exact feeding of filling material into the wedge. Feeding device is driven by servo motor for a precise filling volume adjustment, based on the set values of touch-screen.

Spreader Box

Automatic gelatin material level control by sensor & cylinder system

Lubrication Rollers(4) & Guided Rollers(6)

Diagonal position type rollers.

Drum

Ribbon-forming station. Equipped with water cooling system and stand-alone type chiller.

Safety Cover (Option)

The machine operation stops when the cover is opened.

Ribbon thickness checker & control system (Option)

The range of thickness is set on the touch-screen. If the ribbons' thickness is irregular, sensors give alarms. Thickness can be automatically controlled in spreader boxes by servo system.

SPECIAL FEATURE

1. Easy to operate using touch-screen control system.
2. Can produce gelatin capsules only.
3. Precise filling material volume control by servo.
4. Automatic die roll alignment & injection timing by servo.
5. Save function for saving the production set values for each product.
6. F100V can produce both gelatin capsules and vegetable capsules.

SOFT CAPSULE MACHINE WITH FULLY CLOSED

GENESYS NH-015

A soft capsule machine with fully closed,model GENESYS NH-015,is a fully automatic machine for producing soft capsules. (Can be self-control of humidity&temperature,as an option)This machine is designed as an enclosed type machine with special enclosed-type tumble dryer.(option)

A small air conditioner is directly connected to the main machine and tumble dryer, to control the humidity & temperature inside them and to save the cost. The machine's PLC touch-screen monitor provides an effective production management.



SPECIAL FEATURE

1. Easy to operate using touch-screen control system.
2. Can produce both gelatin capsules and vegetable capsules.
3. Quick and easy setting of injection timing by timing gear.
4. GENESYS NH-015V can produce both gelatin capsules and vegetable capsules.

Classification of Die	Capsule Type	Output (Hour)
Round #3	Vegetable	61,200Capsules
	Gelatin	186,480Capsules
Oval #5	Vegetable	41,106Capsules
	Gelatin	147,420Capsules
Oval #7.5	Vegetable	34,272Capsules
	Gelatin	110,250Capsules
Oval #10	Vegetable	34,272Capsules
	Gelatin	107,100Capsules
Oblong #12	Vegetable	23,664Capsules
	Gelatin	73,500Capsules
Oblong #20	Vegetable	19,278Capsules
	Gelatin	64,260Capsules
Oblong #22	Vegetable	18,564Capsules
	Gelatin	53,760Capsules

LIST	MODEL GENESYS NH-015
Capsule Shape / Size	Round, Oval, Oblong, etc
Type of Soft Capsule	Vegetable, Gelatin
Die Roll Size	Ø150 x 290mm
Power Consumption	Approx.23kW (Main machine only)
Air Pressure	6kg f/m ²
Control	Touch Screen / PLC
Dimensions /Weight (Approx.)	2,700(L) x 1,500(W) x 2,800(H)mm / 2,800kg
Electricity	380V, 3Phase, 50/60 HZ

Die Roll Housing

Part for soft capsule forming, filling, sealing & cutting.

Feeding Device & Hopper

12 piston nozzles on left & right side each, for an exact feeding of filling material into the wedge.

Indicator in the feeding section for a precise filling volume adjustment according to operator's control.

* Hopper Heater: 300W x 2, double jacket, impeller included

Spreader Box

Air bladder for controlling the material level in the spreader box.

Lubrication Rollers(4) & Guide Rollers(6)

Horizontal position type rollers.

Drum

Ribbon-forming station. Equipped with filter system with air blowing to prevent any dust from contacting cooling drums, water cooling system, and stand-alone type chiller.

TWIN SOFT CAPSULE MACHINE

TW-150

Twin soft capsule machine model TW-150, is a fully automatic machine for producing twin soft capsules. Patent design consisting of 2 supply devices.

This machine complies with all necessary GMP standards and CE regulations. The machine's PLC touch-screen monitor provides an effective production management.



SPECIAL FEATURE

1. Easy to operate using touch-screen control system.
2. Can produce gelatin capsules only.
3. Quick and easy setting of injection timing by timing gear.
4. TW-150V can produce both gelatin capsules and vegetable capsules.

Classification of Die	Capsule Type	Output (Hour)
Round #3	Vegetable	52,020Capsules
	Gelatin	155,400Capsules
Oval #5	Vegetable	34,782Capsules
	Gelatin	122,850Capsules
Oval #7.5	Vegetable	28,560Capsules
	Gelatin	95,550Capsules
Oval #10	Vegetable	28,560Capsules
	Gelatin	92,820Capsules
Oblong #12	Vegetable	20,706Capsules
	Gelatin	58,800Capsules
Oblong #20	Vegetable	16,524Capsules
	Gelatin	49,980Capsules
Oblong #22	Vegetable	15,912Capsules
	Gelatin	48,510Capsules

LIST	MODEL TW-150
Capsule Shape / Size	Twin, Round, Oval, Oblong, etc
Type of Soft Capsule	Gelatin
Die Roll Size	Ø150 x 250mm
Power Consumption	Approx.25kW (Main machine only)
Air Pressure	6kg f/m ²
Control	Touch Screen / PLC
Dimensions /Weight (Approx.)	2,350(L) x 1,738(W) x 2,150(H)mm / 2,000kg
Electricity	380V, 3Phase, 50/60 HZ
Option	Safety Cover, Automatic Thickness Check & Control System

Die Roll Housing

Part for soft capsule forming, filling, sealing & cutting.

Lubrication Rollers(4) & Guided Rollers(6)

Diagonal position type rollers.

Feeding Device & Hopper

40 piston nozzles , for an exact feeding of filling material into the wedge. Indicator in the feeding section for a precise filling volume adjustment according to operator's control.

Drum

Ribbon-forming station. Equipped with water cooling system and stand-alone type chiller.

Spreader Box

Air bladder for controlling the material level in the spreader box.

SOFT CAPSULE MACHINE WITH SAFETY COVER

T-150S

A soft capsule machine with safety cover, model T-150S, is a fully automatic machine for producing soft capsules. This machine is designed with safety cover for operator's safety.

This machine complies with all necessary GMP standards and CE regulations. The machine's PLC touch-screen monitor provides an effective production management.



SPECIAL FEATURE

1. Easy to operate using touch-screen control system.
2. Can produce gelatin capsules.
3. Quick and easy setting of injection timing by timing gear.
4. T150SV can produce both gelatin capsules and vegetable capsules.

Classification of Die	Capsule Type	Output (Hour)
Round #3	Vegetable	52,020Capsules
	Gelatin	155,400Capsules
Oval #5	Vegetable	34,782Capsules
	Gelatin	122,850Capsules
Oval #7.5	Vegetable	28,560Capsules
	Gelatin	95,550Capsules
Oval #10	Vegetable	28,560Capsules
	Gelatin	92,820Capsules
Oblong #12	Vegetable	20,706Capsules
	Gelatin	58,800Capsules
Oblong #20	Vegetable	16,524Capsules
	Gelatin	49,980Capsules
Oblong #22	Vegetable	15,912Capsules
	Gelatin	48,510Capsules

LIST	MODEL T-150S
Capsule Shape / Size	Round, Oval, Oblong, etc
Type of Soft Capsule	Gelatin /Vegetable (Option)
Die Roll Size	Ø150 x 250mm
Power Consumption	Approx. Gelatin 23kW / Approx. Vegetable 28kW (Main machine only)
Air Pressure	6kg f/m ²
Control	Touch Screen / PLC
Dimensions /Weight (Approx.)	2,000(L) x 1,400(W) x 2,000(H)mm / 1,700kg
Electricity	380V, 3Phase, 50/60 HZ

Feeding Device & Hopper

10 piston nozzles on left & right side each, for an exact feeding of filling material into the wedge. Indicator in the feeding section for a precise filling volume adjustment according to operator's control.

* Hopper Heater: 300W x 2, double jacket, impeller included

Spreader Box

Air bladder for controlling the material level in the spreader box.

Lubrication Rollers(4) & Guide Rollers(6)

Diagonal position type rollers.

Drum

Ribbon-forming station. Equipped with water cooling system and stand-alone type chiller.

Safety Cover

The machine operation stops when the cover is opened. (Option)

Ribbon Thickness Checker & Control System (Option)

The range of thickness is set on the touch-screen. If the ribbons' thickness is irregular, sensors give alarms. Thickness can be automatically controlled in spreader boxes by servo system.

VEGETABLE SOFT CAPSULE MACHINE

T-150V

Vegetable soft capsule machine model T-150V, is a fully automatic machine for producing vegetable soft capsules.

This machine has various advantages among pure vegetarians and consumers with dietary, religious or cultural restrictions. Its PLC touch-screen provides an effective production management.



SPECIAL FEATURE

1. Easy to operate using touch-screen control system.
2. Can produce both gelatin capsules and vegetable capsules.
3. Quick and easy setting of injection timing by timing gear.

Classification of Die	Capsule Type	Output (Hour)
Round #3	Vegetable	52,020Capsules
	Gelatin	155,400Capsules
Oval #5	Vegetable	34,782Capsules
	Gelatin	122,850Capsules
Oval #7.5	Vegetable	28,560Capsules
	Gelatin	95,550Capsules
Oval #10	Vegetable	28,560Capsules
	Gelatin	92,820Capsules
Oblong #12	Vegetable	20,706Capsules
	Gelatin	58,800Capsules
Oblong #20	Vegetable	16,524Capsules
	Gelatin	49,980Capsules
Oblong #22	Vegetable	15,912Capsules
	Gelatin	48,510Capsules

LIST	MODEL T-150V
Capsule Shape / Size	Round, Oval, Oblong, etc
Type of Soft Capsule	Vegetable, Gelatin
Die Roll Size	Ø150 x 250mm
Power Consumption	Approx.28kW (Main machine only)
Air Pressure	6kg f/m ²
Control	Touch Screen / PLC
Dimensions /Weight (Approx.)	2,200(L) x 1,150(W) x 2,000(H)mm / 1,900kg
Electricity	380V, 3Phase, 50/60 HZ

Die Roll Housing

Part for soft capsule forming, filling, sealing & cutting.

Feeding Device & Hopper

10 piston nozzles on left & right side each, for an exact feeding of filling material into the wedge. Indicator in the feeding section for a precise filling volume adjustment according to operator's control.

* Hopper Heater: 300W x 2, double jacket, impeller included

Spreader Box

Air bladder for controlling the material level in the spreader box.

Lubrication Rollers(4) & Guide Rollers(6)

Diagonal position type rollers.

Drum

Ribbon-forming station. Equipped with water cooling system and stand-alone type chiller.

STANDARD SOFT CAPSULE MACHINE

T-150 / T-150G

Standard soft capsule machine model T-150 / T-150G, is a fully automatic machine for producing soft capsules. This machine is designed for producing gelatin soft capsule only.

This machine complies with all necessary GMP standards and CE regulations. The machine's PLC touch-screen monitor provides an effective production management.



SPECIAL FEATURE

1. Easy to operate using touch-screen control system.
2. Can produce gelatin capsules only.
3. Quick and easy setting of injection timing by timing gear.

Classification of Die	Capsule Type	Capsule	Output (Hour)
T-150 (Ø150 x 250mm)	Round #3	Vegetable	52,020Capsules
		Gelatin	155,400Capsules
	Oval #5	Vegetable	34,782Capsules
		Gelatin	122,850Capsules
	Oval #7.5	Vegetable	28,560Capsules
		Gelatin	95,550Capsules
	Oval #10	Vegetable	28,560Capsules
		Gelatin	92,820Capsules
	Oblong #12	Vegetable	20,706Capsules
		Gelatin	58,800Capsules
Oblong #20	Vegetable	16,524Capsules	
	Gelatin	49,980Capsules	
Oblong #22	Vegetable	15,912Capsules	
	Gelatin	48,510Capsules	
T-150G (Ø150 x 290mm)	Round #3	Vegetable	61,200Capsules
		Gelatin	186,480Capsules
	Oval #5	Vegetable	41,106Capsules
		Gelatin	147,420Capsules
	Oval #7.5	Vegetable	34,272Capsules
		Gelatin	110,250Capsules
	Oval #10	Vegetable	34,272Capsules
		Gelatin	107,100Capsules
	Oblong #12	Vegetable	23,664Capsules
		Gelatin	73,500Capsules
Oblong #20	Vegetable	19,278Capsules	
	Gelatin	64,260Capsules	
Oblong #22	Vegetable	18,564Capsules	
	Gelatin	53,760Capsules	

LIST	MODEL T-150 / T-150G
Capsule Shape / Size	Round, Oval, Oblong, etc
Type of Soft Capsule	Gelatin only
Die Roll Size	T-150 : Ø150 x 250mm T-150G : Ø150 x 290mm
Power Consumption	Approx.23kW (Main machine only)
Air Pressure	6kg f/m ²
Control	Touch Screen / PLC
Dimensions /Weight (Approx.)	T-150 : 2,000(L) x 1,150(W) x 1,950(H)mm / 1,810kg T-150G : 2,000(L) x 1,250(W) x 1,950(H)mm / 1,830kg
Electricity	380V, 3Phase, 50/60 HZ

Die Roll Housing

Part for soft capsule forming, filling, sealing & cutting.

Feeding Device & Hopper

10(12) piston nozzles on left & right side each, for an exact feeding of filling material into the wedge. Indicator in the feeding section for a precise filling volume adjustment according to operator's control.

* Hopper Heater: 300W x 2, double jacket, impeller included

Spreader Box

Air bladder for controlling the material level in the spreader box.

Lubrication Rollers(4) & Guide Rollers(6)

Diagonal position type rollers.

Drum

Ribbon-forming station. Equipped with water cooling system and stand-alone type chiller.

SOFT CAPSULE MACHINE WITH SAFETY COVER FOR SMALL CAPACITY

T-100

The machine model T-100 is a fully automatic machine for producing soft gelatin. The machine is designed for an easy control and highly qualified production. Safety cover as an option.

It is designed according to the requirements of the pharmaceutical and food industry and in observance of GMP standards and CE regulations. It provides production management and PLC control with a touch-screen monitor.



SPECIAL FEATURE

1. Easy to operate using touch-screen control system.
2. Can produce gelatin capsules only, T100V can produce vegetable capsules
3. The machine's capacity is suitable for a small commercial production.
4. Die rolls and cooling drums are designed to be the same size, so that they are suitable for production. (Cooling drum width: 180 mm)
5. Fast and easy replacement of components.

Classification of Die	Capsule Type	Output (Hour)
Round #3	Vegetable	18,900Capsules
	Gelatin	49,920Capsules
Oval #5	Vegetable	11,340Capsules
	Gelatin	41,472Capsules
Oval #7.5	Vegetable	10,260Capsules
	Gelatin	32,256Capsules
Oval #10	Vegetable	8,550Capsules
	Gelatin	30,912Capsules
Oblong #12	Vegetable	7,110Capsules
	Gelatin	23,040Capsules
Oblong #20	Vegetable	4,860Capsules
	Gelatin	17,664Capsules
Oblong #22	Vegetable	4,860Capsules
	Gelatin	16,896Capsules

LIST	MODEL T-100S
Capsule Shape / Size	Round, Oval, Oblong, etc
Type of Soft Capsule	Gelatin /Vegetable(Optional)
Die Roll Size	Ø102.8 x 152.5mm
Power Consumption	F100: Approx.23kW / F100V: Approx.28kW (Main machine only)
Air Pressure	6kg f/m ²
Control	Touch Screen / PLC
Dimensions /Weight (Approx.)	2,350(L) x 1,738(W) x 2,150(H)mm / 1,800kg
Electricity	380V, 3Phase, 50/60 HZ

Die Roll Housing

Part for soft capsule forming, filling, sealing & cutting

Feeding Device & Hopper

5 piston nozzles on left & right side each, for an exact feeding of filling material into the wedge.

Indicator in the feeding section for a precise filling volume adjustment according to operator's control.

* Hopper Heater: 300W x 2, double jacket, impeller included

Spreader Box

Air bladder for controlling the material level in the spreader box.

Lubrication Rollers(4) & Guided Rollers(6)

Diagonal position type rollers.

Drum

Ribbon-forming station. Equipped with water cooling system and stand-alone type chiller.

Safety Cover (Option)

The machine operation stops when the cover is opened. (Option)

Ribbon thickness checker & control system (Option)

The range of thickness is set on the touch-screen. If the ribbons' thickness is irregular, sensors give alarms. Thickness can be automatically controlled in spreader boxes by servo system.

STANDARD SOFT CAPSULE MACHINE FOR R&D

R-150

Standard soft capsule machine for R&D and small production capacity, model R-150, is a fully automatic machine for producing soft capsules. It is suitable for soft capsule development. This compact machine requires only a small space for installation.

This machine complies with all necessary GMP standards and CE regulations. The machine's PLC touch-screen monitor provides an effective production management.



SPECIAL FEATURE

1. Easy to operate using touch-screen control system.
2. Can produce gelatin capsules only. R150V can produce vegetable capsules.
3. Quick and easy setting of injection timing by timing gear.

Classification of Die	Capsule Type	Output (Hour)
Round #3	Vegetable	10,800Capsules
	Gelatin	21,312Capsules
Oval #5	Vegetable	8,370Capsules
	Gelatin	22,464Capsules
Oval #7.5	Vegetable	5,040Capsules
	Gelatin	15,120Capsules
Oval #10	Vegetable	7,560Capsules
	Gelatin	19,584Capsules
Oblong #12	Vegetable	5,220Capsules
	Gelatin	10,080Capsules
Oblong #20	Vegetable	2,430Capsules
	Gelatin	9,792Capsules
Oblong #22	Vegetable	2,340Capsules
	Gelatin	9,216Capsules

LIST	MODEL R-150
Capsule Shape / Size	Round, Oval, Oblong, etc
Type of Soft Capsule	Gelatin/Vegetable(Optional)
Die Roll Size	Ø150 x 100mm
Power Consumption	R150: Approx.23kW / R150V: Approx.28kW (Main machine only)
Air Pressure	6kg f/m ²
Control	Touch Screen / PLC
Dimensions /Weight (Approx.)	1,200(L) x 1,050(W) x 1,150(H)mm / 1,350kg
Electricity	380V, 3Phase, 50/60 HZ

Die Roll Housing

Part for soft capsule forming, filling, sealing & cutting.

* Compact die roll size (Ø150 x 100mm)

Feeding Device & Hopper

2 piston nozzles on left & right side each, for an exact feeding of filling material into the wedge. Indicator in the feeding section for a precise filling volume adjustment according to operator's control

* Hopper Heater: 300W x 2, double jacket, impeller included

Spreader Box

Air bladder for controlling the material level in the spreader box

Lubrication Rollers(4) & Guide Rollers(4)

Diagonal position type rollers.

Drum

Ribbon-forming station. Equipped with water cooling system and stand-alone type chiller.

TUMBLE DRYER

TD-62 (For Soft Capsule Drying)

Tumble Dryer is designed and constructed in accordance with the requirement of the encapsulation machine line production. It has purpose for fast and quick dry of soft gelatin capsule produced from encapsulation machine line.

It provides simple operation for user friendly and it can be linked up with any number of tumble dryer unit as many as user's requirement.



* The machine design can be upgraded depending on various market demand.

LIST	MODEL TD-62
Output (Approx.)	OB20 / 34,400capsules (Depending on product condition and requirement)
Size of Basket	Size Ø620×950mm (Outer Diameter) / Weight : Approx. 30kg
Control	Linked-up with main machine or separated volume type control (Option)
Air quantity	63CMM/2,220CFM
Dimensions /Weight (Approx.)	1,150(L)×900(W)×1,100(H)mm (per one set) / Approx. 320kg
Power Consumption	Approx.2kW (for one unit)
Electricity	380V, 3phase, 50/60Hz

SPECIAL FEATURE

1. Fast and quick dry of soft gelatin capsule.
2. Can link up with any number of tumble dryer unit as many as user's requirement.
3. Contact part with confirm to the current standards of material SUS 316L.
4. Complete safety guard with interlock design.

DOUBLE DECK TUMBLE DRYER

N2T

Double deck Tumble Dryer is designed and constructed in accordance with the requirement of the encapsulation machine line production. It has purpose of fast and quick dry of soft gelatin capsule produced from encapsulation machine line.

It provides simple operation for user friendly and it can be linked up with any number of tumble dryer unit as many as user's requirement.



* The machine design can be upgraded depending on various market demand.

LIST	MODEL N2T
Output (Approx.)	OB20 / 34,400capsules (Depending on product condition and requirement)
Size of Basket	Size Ø620×950mm (Outer Diameter) / Weight : Approx.30kg
Control	Linked-up with main machine or separated volume type control (Option)
Air quantity	63CMM/2,220CFM (35,520 CFM/16Units)
Dimensions /Weight (Approx.)	8,403(L)×1,200(W)×1,872(H)mm (8×2) / 5,640kg
Power Consumption	Approx.32kW (for 16 units)
Electricity	380V, 3phase, 50/60Hz

SPECIAL FEATURE

1. Fast and quick dry of soft gelatin capsule.
2. Can link up with any number of tumble dryer unit as many as user's requirement.
3. Contact part with confirm to the current standards of material SUS316L
4. Space saving, can be installed in a small space

CIP TUMBLE DRYER

CTM-62 (For Soft Capsule Drying with CIP)

Tumble Dryer is designed and constructed in accordance with the requirement of the encapsulation machine line production. It has purpose for fast and quick dry of soft gelatin capsule produced from encapsulation machine line.

CTM-62 is purpose to cleaned in the place, it is no required to take out the basket from the main body for cleaning. Not only reducing the cleaning time and labor force as well as the damage of the equipment. It is designed with GMP regulation and user friendly.



* The machine design can be upgraded depending on various market demanding.

LIST	MODEL CTM-62
Output (Approx.)	OB20 / 34,400capsules (Depending on product condition and requirement)
Size of Basket	Size Ø620×950mm (Outer Diameter) / Weight : Approx. 30kg
Control	Linked-up with CIP System (CIP-7)
Air quantity	63CMM/2,220CFM
Dimensions / Weight (Approx.)	1,150(L)×1,150(W)×1,300(H)mm / Approx. 300kg
Power Consumption	Approx.2kW (for one unit)
Electricity	380V, 3phase, 50/60Hz

SPECIAL FEATURE

1. It could supply purified water, hot water, tap water, cleaning liquid.
2. Openable window on the cover remove the moisture inside the tumbler.
3. Can be linked up with any number of tumble dryer unit as many as user's requirement.
4. Complete safety guard and prevent leaking with interlock design.

CIP SYSTEM

CIP-7

CIP is Clean-In-Place. CIP system tanks can be linked up with some functional equipment as gelatin melting tank with pipeline works. It can supply for cleaning with various material.

CIP-7 makes the room environment sanitary because the cleaning work is done in the sealed line and can inhibit secondary pollution. CIP-7 shortens the cleaning time and labor force. Its PLC touch-screen monitor provides an effective production management.



* The machine design can be upgraded depending on various market demand.

LIST	MODEL CIP-7
Dimensions (Approx.)	1,400(L)×2,100(W)×1,400(H)mm
Weight (Approx.)	450Kg
Power Consumption	Approx.10kW
Electricity	380V, 3phase, 50/60Hz

SPECIAL FEATURE

1. It could supply purified water, hot water, constant water, cleaning liquid.
2. With 4 supply diaphragm valve, it can connect to various equipment with 1 CIP system.
3. Air pump blows the air through the pipe to clean itself.
4. Effective cleaning management with automatic task setting on the touch-screen.

SOFT CAPSULE WASHING MACHINE

CW-62

CW-62 is designed to clean the produced soft capsule in a basket with alcohol for marking on it or to remove oil and contaminants from the surface of the capsule. It is consisted of main body and the controller with touch screen monitor.

It is designed with GMP regulation & prevention of explosion.



* The machine design can be upgraded depending on various market demand.

LIST	MODEL CW-62
Size of Basket	Size Ø620×950mm (Outer Diameter) / Weight : Approx. 30kg
Control	Separated Controller
Dimensions (Approx.)	1,700(L)×950(W)×1,450(H)mm / Main machine (Room : Positive) 650(L)×600(W)×1,295(H)mm / Controller (Room : Negative)
Weight (Approx.)	650Kg
Power Consumption	Approx.4kW
Electricity	380V, 3phase, 50/60Hz

SPECIAL FEATURE

1. Safety device is designed to automatically shut down without any electrical device when cover is opened during the operation.
2. Easy to check inside through the basket window.
3. Air bladder prevent overflow of alcohol over the tank.
4. Economical design with a bladder for increasing the level of alcohol in the tank

BASKET WASHING MACHINE

TDC-62

The Basket Washing Machine is an automatic washing machine for basket of tumble dryer. The Basket Washing Machine is designed for one touch washing control.

First washing with water, then cleaning with hot water as mixing with detergent. And then washing with purified water. After cleaning with water, it is worked the air blower and electric heating for drying quickly. It will be taken the cleaning processing about 20 minutes in automatic mode.



* The machine design can be upgraded depending on various market demand.

LIST	MODEL TDC-62
Control	PLC Touchscreen
Dimensions / Weight (Approx.)	1,934(L)×1,713(W)×1,870(H)mm / 545kg
Power Consumption	Approx. 27kW
Electricity	380V, 3phase, 50/60Hz

SPECIAL FEATURE

1. Easy to operate using touch-screen control system.
2. No blind spot clean with 360 degree rotating spray ball and nozzle
3. Fast drying with air blower and electric heater
4. Set up the cleaning procedure automatically or manually

PRINT MACHINE

CP7 (Capsule Print Machine)

The Capsule Print Machine (CP7) is a machine that prints ink on soft capsules. Supplies the capsule to the hopper, and the capsule enters the printing machine drum in seven rows and is discharged after printing.

This machine complies with all necessary GMP standards and CE regulations. The machine's PLC touch-screen monitor provides an effective production management.



LIST	MODEL GP7
Control	Touch type control panel
Type	Trum
Power Consumption	Approx. 4kW
Dimensions /Weight(Approx.)	1,648(L) x 952(W) x 1,878(H)mm / 700kg
Electricity	380V, 3Phase, 50/60 HZ

SPECIAL FEATURE

1. Easy control through touch screen.
2. The output can be adjusted.
3. Compact design with flexibility and user-friendly operation.
4. Printing conditions can be easily adjusted.

LASER MARKING SYSTEM

L-5 (Engraving on Soft Capsule)

Laser marking system (L-5) is specially designed for engraving on soft capsule and constructed in accordance with the requirement of the pharmaceutical and food industry and in observance of GMP standards and CE regulations.

It's used for high product design quality. And, by PC base control with touch monitor.



* The machine design can be upgraded depending on various market demand.

LIST	MODEL L-5
Output (Approx.)	50,000 ~70,000 ea/hour (Depending on product condition and requirement)
Applying product	Soft Capsule (Type : Oval & Oblong)
Control	Touch Monitor / PC (Computer)
Air quantity	3~5 kg/cm ²
Dimension / Weight(Approx.)	1,600(L)x1,150(W)x1,650(H)mm / 1,100kg
Electricity	220V, 1phase, 50/60Hz
Power consumption	Approx.3.5kW

SPECIAL FEATURE

1. Engraving on Soft Capsule. (Same font with MS Word)
2. PC base control system, it's available to record the production data as well as printing with touch-screen monitor.
3. Complies with all necessary GMP Standards and CE Regulations.
4. Servo control system for compensation of exact position for product holding rotated feeder plate in automation.

GELATIN MELTING TANK (HYDRAULIC TYPE)

MT300

The Gelatin Melting Tank is a tank for melting gelatin. The tanks are designed for easy control and highly qualified production.



LIST	MODEL MT300
Control	Button type control panel
Type	Hydraulic
Function	Gelatin
Power Consumption	Approx. 13kW
Dimensions /Weight(Approx.)	2,000(L) x 950(W) x 2,046(H)mm / 1,700kg
Electricity	380V, 3Phase, 50/60 HZ

SPECIAL FEATURE

1. Impeller operates smoothly for mixing materials.
2. Control panel controls and coordinates all parts of the tanks to ensure product quality and smooth machine operation.
3. MT300 used for preparing gelatin.
4. VM300 used for preparing vegetable material for ribbon.
5. Customize various capacity of melting tank

GELATIN MELTING TANK (PLATFORM TYPE)

MT600

The Gelatin Melting Tank is a tank for melting gelatin. The tanks are designed for easy control and highly qualified production.



LIST	MODEL MT600
Control	Button type control panel
Type	Hydraulic
Function	Gelatin
Power Consumption	Approx. 50kW
Dimensions /Weight(Approx.)	2,815(L) x 2,366(W) x 3,150(H)mm / 1,450kg
Electricity	380V, 3Phase, 50/60 HZ

SPECIAL FEATURE

1. Impeller operates smoothly for mixing materials.
2. Control panel controls and coordinates all parts of the tanks to ensure product quality and smooth machine operation.
3. MT600 used for preparing gelatin.
4. VM600 used for preparing vegetable material for ribbon.
5. Customize various capacity of melting tank

OTHER EQUIPMENT



Ø730 TUMBLE DRYER (STD-73)

Dimensions	1,630(L) x 1,250(W) x 1,040(H)mm
Weight	850kg
Basket size	Size Ø730x1,620mm (Out diameter) /Weight: Approx. 90kg
Control	Touch Screen / PLC
Capacity	650L
Power Consumption	Approx. 9kW



PULVERIZATION MACHINE (PV-120)

Machine for pulverization of solidified gelatin mass.

Dimension	600(L)x650(W)x1,250(H)mm
Weight	280kg
Power Consumption	Approx. 3.8kW



COLOR MIXER (CMX-15)

Color mixer impeller is moved up & down by pneumatic cylinder. It is installed on the frame or platform type melting tank or on the wall. Stand-alone control panel, with press button type switches.

Dimension	600(L) x 900(W) x 3,200(H)mm
Weight	360kg
Power Consumption	Approx. 8Kw



GELATIN SERVICE TANK (GL-25)

Triple-layer model, double jacket. Built-in temperature sensor.

Dimension	ø676x1,182 (H)mm
Weight	85kg
Capacity	250ℓ
Power Consumption	Approx. 3Kw



MEDICINE SERVICE TANK (MD-30)

Double-layer model, single jacket. Built-in temperature sensor, impeller as an option.

Dimension	ø770x1,100 (H)mm
Weight	120kg
Capacity	300L
Power Consumption	Approx. 3Kw



COLLOID MILL (CM-180)

Machine for pulverization of solid matter.

Maximum Capacity	18ℓ
Dimension	800(L) x 900(W) x 1,700(H)mm
Weight	320kg
Power Consumption	Approx. 12kW

OTHER EQUIPMENT



VACUUM & HOMOGENIZER (VH-300)

Special function of mixing, homogenizing and heat exchanging at the same time under vacuum state. Suitable for products with viscous raw material.

Dimension	1,700(L)x900(W)x2,800(H)mm
Weight	835kg
Power Consumption	Approx. 10Kw



VIBRATOR (VS-50)

Paste material flouring through a sieve.

Dimension	ø680 x 1,400(H)mm
Weight	100kg
Power Consumption	Approx. 90W



TRAY & DOLLY

Tray	
Material	SUS304 / PE / PP
Dimension	760(L) x 600(W) x 30(H)mm

Dolly	
Material	SUS304 / PE / PP
Dimension	800(L) x 600(W) x 60(H)mm



POLISHING PAN (PP-90)

Dimension	1,550(L)x750(W)x1,350(H)mm
Weight	300kg
Power Consumption	Approx. 1.5kW



AUTOMATIC SORTING MACHINE (ST)

Machine for automatically sorting soft gelatin capsules with different sizes by diameter (6 tracks).









Dimension	1,700(L) x 1,150(W) x 2,000(H)mm
Weight	690kg (6 tracks)
Power Consumption	Approx. 1.5Kw (6 tracks), Approx. 2.5Kw (10 tracks)

SOFT CAPSULE SHAPES AND SIZES













ROUND

 1 Round minims : 0.75 - 1.00 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			

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	 5 Oval minims : 4.3 - 5.0 cc : 0.265 - 0.308	 6 Oval minims : 5.2 - 6.0 cc : 0.320 - 0.370	 7 Oval minims : 6.2 - 7.5 cc : 0.382 - 0.462
 10 Oval minims : 7.5 - 10.0 cc : 0.462 - 0.616	 20 Oval minims : 21.0 - 30.0 cc : 1.297 - 1.848				

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 minims : 5.0 - 6.0 cc : 0.308 - 0.370	 8 Oblong minims : 6.5 - 8.0 cc : 0.400 - 0.493	 9.5 Oblong minims : 7.5 - 9.5 cc : 0.462 - 0.585
 11 Oblong minims : 10.5 - 12.2 cc : 0.647 - 0.752	 14 Oblong minims : 12.5 - 14.0 cc : 0.770 - 0.862	 16 Oblong minims : 14.0 - 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

SOFT CAPSULE SHAPES AND SIZES

TUBE

 5 Tube minims : 2.5 - 5.0 cc : 0.154 - 0.308	 6 Tube minims : 5.0 - 6.0 cc : 0.308 - 0.370	 8 Tube minims : 6.0 - 8.0 cc : 0.370 - 0.493	 17.5 Tube minims : 15.0 - 17.0 cc : 0.924 - 1.047	 30 Tube minims : 27.0 - 32.0 cc : 1.663 - 1.971
 45 Tube minims : 40.0 - 45.0 cc : 2.464 - 2.772	 55 Tube minims : 40.0 - 55.0 cc : 2.646 - 3.388	 120 Tube minims : 90.0 - 120.0 cc : 5.544 - 7.392		

SPECIAL SHAPES



SUPPOSITORIES

 6 Suppository minims : 5.0 - 6.0 cc : 0.308 - 0.370	 10 Suppository minims : 7.0 - 10.0 cc : 0.430 - 0.620	 40 Suppository minims : 30.0 - 40.0 cc : 1.850 - 2.460	 80 Suppository minims : 62.0 - 80.0 cc : 3.819 - 4.928
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CUBE, a leading global manufacturer in the field of soft capsule technology in pharmaceutical and food industry, is continuously growing for the future, based on deep human respect and advanced technology. 'Technology' to CUBE, means promoting customers' happiness & satisfaction, and we dream to contribute to the society and human development with our machinery products and service.