

# LEEPACK

Rotary packaging equipment and engineered system

# COMPANY



**LEEPACK** is a leading company of the packaging machinery in Korea.

Leepack Co., Ltd, based in S. Korea, is the leading company for intermittent rotary packaging system. Product portfolio ranges from stand alone filling unit, vacuum packer and vertical form fill seal machine to rotary fill and seal machine for food, pharmaceutical and chemical product. As a result of worldwide vigorous expansion, there are more than 20 agents in 5 continents and the export business to global food and chemical conglomerates is continuously growing up. Leepack machine targets the most durable and versatile machine in the world. In order to fulfill our vision, requirement of 10 year lasting durability are taken into account from the initial engineering through all the manufacturing process. Along with its durability, our versatile configuration and expandability will give you the chance to realize your creative idea to improve manufacturing productivity and products' marketability.

LEEPACK Tech center (2013) & The second factory (2016)

## SINCE 1967

- Founded by former president "Lee, Jong Gak" and started business from semi automatic sealing, weighing packaging machine.

1967



- Developed Auger filler for accurate powder filling

1978



- Launched Rotary Fill Seal Machine first in Korea

1986



- Rotary Form Fill Seal Machine developed for economic tubular film packaging

1990



1972

- Developed Band sealer



1975

- Developed net weigher
- Launched Vacuum packer first in Korea



1979

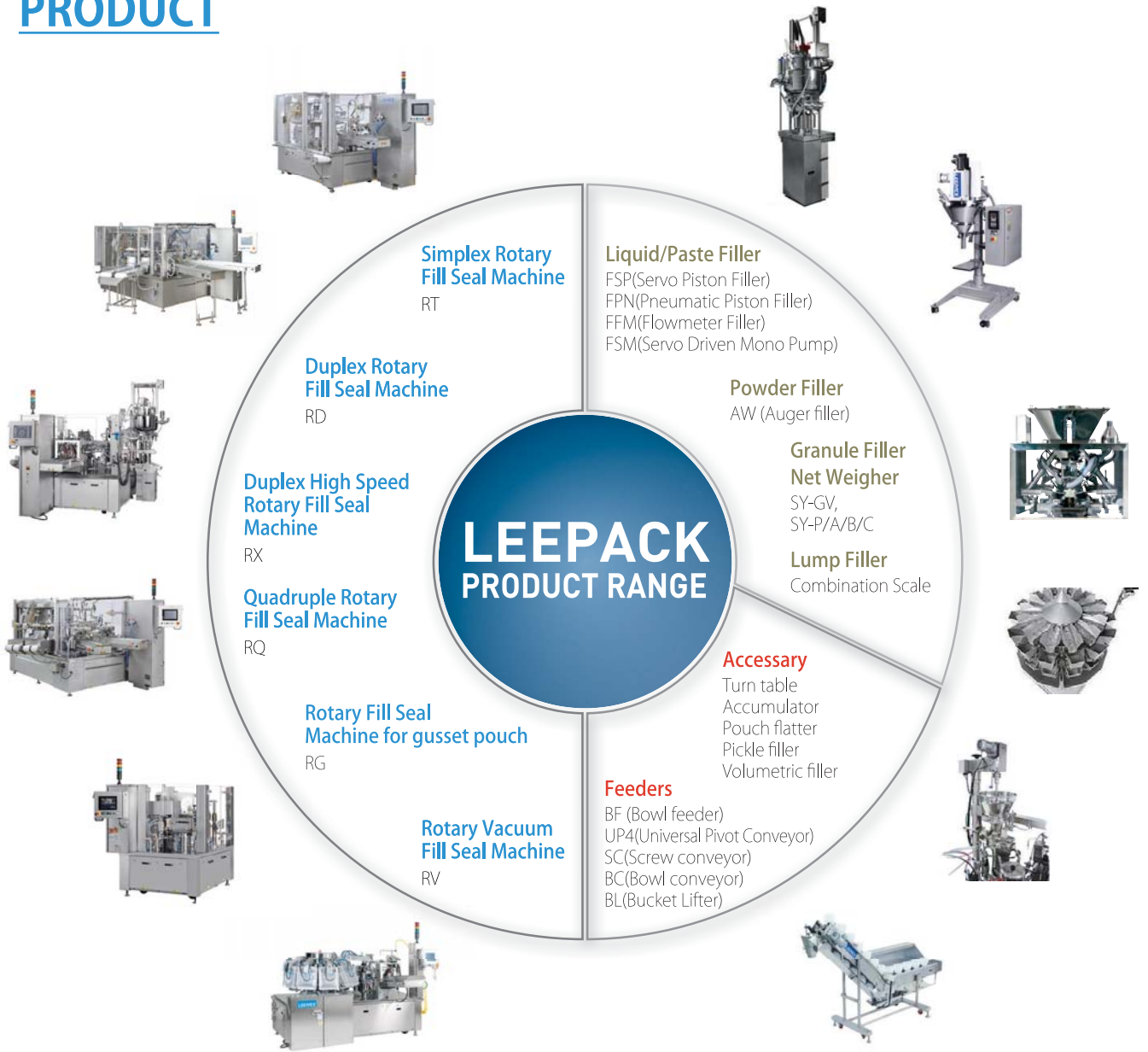
- Developed Vertical Form Fill Seal Machine



1991

- Moved to Bucheon Factory, where Leepack started new era of expansion.

# PRODUCT



• "Leegun system" subsidiary company founded  
**2000**

• Due to capacity and productivity, Leepack moved to current location, Incheon sized as 12,000m<sup>2</sup>.  
**2003**

• ISO14001 certification acquired  
**2006**

• All model CE certification acquired  
• Rotary Fill Cap machine developed for paint packaging  
**2010**

**2002**

• Launched Rotary Vacuum Fill Seal Machine

**2005**

• Launched Rotary Quadseal Pouch Fill Seal Machine

**2008**

• Rotary Quadplex Fill Seal Machine developed for small volume liquid packaging



# ROTARY PACKAGING

Since the development, Rotary Fill Seal machine has been fulfilling customers requirements to produce various type of products with limited number of machine. Rotary Fill Seal machine, based on pre-formed pouches provides numerous benefits on more efficient and convenient packaging automation.

## BENEFIT

### Fast & Accurate performance

From simplex to quadplex series, Leepack RP series can speed up to 180 pouches per minute with quadplex model. Also long experienced technology in filling area guarantees to perform with high level of accuracy.

### Versatile configuration

Modular design from the component level allows versatile configuration to meet client's any particular requirements.

### Quick format change

Based on simple mechanism and extended automation, changing into different formats is quick and easy.

### Low space requirement

Thanks to its compact dimension, Leepack RP machine can be easily installed in small space or connected with other equipments.

### Durable quality

"All of its components in Leepack machine are designed and manufactured to last at least 10 years. Modular basis engineering and all time controlled manufacturing assure excellent and reliable quality."

### Better Presentation

Leepack RP machine can handle any kind of pre-formed pouches from standard flat/doypack to corner spout/contoured shape pouches, which elevated your product's presentation and marketability.

## PROCESS

### General configuration

Leepack RP system's versatile capability can realize your specific packaging requirement.



Dust remover



Settler

**Spare**  
Auxiliary device can be integrated depending on filling product or any other requirements

**Etc**  
N2/steam flushing,  
Nozzle type evacuation



Online weight checking



Rejecting conveyor

### Sealing

100% guaranteed PID controlled heat sealing



Heat sealing



Ultrasonic sealing

### Cooling & Discharging

**Etc**  
T T chain conveyor



Discharging



Cooling



Cooling & discharging

### Pouch loading

"Storage up to ~500pouches. Simple adjustment for format change"

**Etc**  
Special pouch magazine



Pouch Magazine



Pouch transfer



Tube roll film former



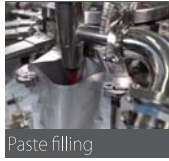
## Product filling

Available for integration with various filling units

Etc

Bowl feeder, cup feeder

Lump (Multihead weigher)



Paste filling



Liquid filling



Granule filling (SY)



Powder filling (Auger filler)

## Pouch opening

Suitable for any type of pouches. (flat, doypak®, zipper etc)



Top open & Opening blade



Stand pouch open & Detection



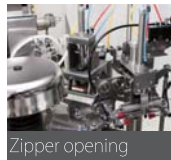
Pouch Top & Bottom open

## Zipper Opening

Patented system for zipper pouch open



Zipper opening



Zipper opening



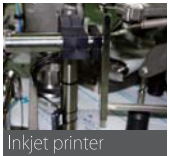
Hot Printer

## Date coding

Any kind of coding unit can be implemented

Etc

Laser printer, Thermal printer



Inkjet printer

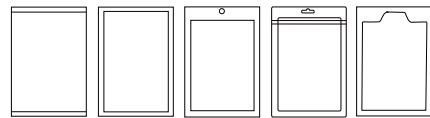
## APPLICATION



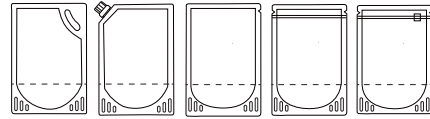
Liquid	Juice, Ginseng Juice, Dairy food, Shampoo, Detergent, Edible oil, etc
Paste and Paste w / soild	Ketchup, Jam, Chily Paste, Curry, Soup, Cooked meal, etc
Powder	Flour, Seasoning, Chilli Powder, Powder Detergent, Chemical Powder, etc
Granule	Sugar, Salt, Grain, Coffee, Nuts, Cereal, Tablet/Capsule, etc
Lump	Chestnut, Instant Noodle, Cocktail Ice, Sausage, Biscuit, Pickles, etc

## POUCH PATTERN

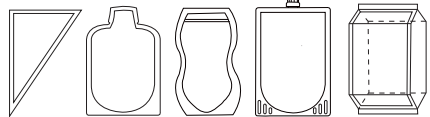
### Flat



### Stand up (Doypak®)



### Special Shape





# RT Series



Leepack offers a wide range of intermittent 8/10 station rotary fill seal machines to suit your needs with attractable premade pouches. This machine is Leepack's the most widely manufactured machine which can be perfectly fitted into any industries areas without harming its capacity and accuracy.

## Key features

### “Rotary Fill Seal Machine - Standard Simplex”

#### Proven standard performance

RT Series, LEEPACK's best-selling model, can be applied to any type of pouches and packed materials.

#### Wide application

Any kind of pouch, filling prouduct can be realized in Leepack's best selling RT series with wider pouch width up to 340mm.



Zipper Pouch Opening System



Swivel Filling System



Pouch forming system



Neutral Gripper System



RT-110

## Specification

Description		Model			
		RT-108	RT-110	RT-208	RT-210
Number of Station (type)		8	10	8	10
Speed	BPM	40~60	40~60	40~60	40~60
	Speed may vary with product characteristics, pouches or other operation condition.				
Pouch Size	Width(mm)	150~300	100~240	200~380	150~300
	Length(mm)	150~425	150~350	150~500	150~425

# RD Series



Leepack offers a wide range of intermittent 7/8/9/10 station dual gripper type rotary fill seal machines to maximize capacity. This will be the perfect solution for small to medium sized product which requires high capacity under repeatable frequent change over process.



## Key features

### “Rotary Fill Seal Machine - Dual gripper system”

#### Dual gripper type

Independent dual gripper system handles 2 pouches at a time with wide range of pouch width up to 270mm.

#### Up to 100 bpm

Machine can speed up to 100 pouches per minute for any product application.



Pouch top & bottom opening



Thermal sealing



RD-314

## Specification

Description		Model			
		RD-314	RD-316	RD-318	RD-320
Number of Station (type)		7	8	9	10
Speed	BPM	80~100	80~100	80~100	80~100
	Speed may vary with product characteristics, pouches or other operation condition.				
Pouch Size	Width(mm)	100~270	100~230	100~180	100~160
	Length(mm)	150~350	150~350	150~350	150~350

# RX Series



LEEPACK offers Duplex high-speed Rotary Fill Seal Machine with 8/9 stations, optimized for maximizing the productivity of small pouch products. Installed in a minimum space, it offers maximum productivity.

## Key features

### “Rotary Fill Seal Machine - High speed dual gripper system”

#### Up to 120bpm

It can work in combination with all types of weighers and fillers and capable of production up to 120 products every minute.

#### Hygienic dual gripper system

The dual gripper system satisfying sanitary standards is optimally designed for high-speed production to ensure fast and stable production.



Pouch position & 2-sheet detection



Pouch opening



RX-118

## Specification

Description		Model	
		RX-116	RX-118
Number of Station (type)		8	9
Speed	BPM	100~120	100~120
		Speed may vary with product characteristics, pouches or other operation condition.	
Pouch Size	Width(mm)	100~150	80~110
	Length(mm)	150~350	150~350



# RQ Series



Leepack offers 7/8 station quadruple gripper type rotary fill seal machines to maximize capacity. This will be the perfect solution for small sized product which requires maximum capacity under repeatable frequent change over process.



## Key features

### “Rotary Fill Seal Machine - Quadruple gripper system”

#### Up to 160 bpm

For small liquid product, machine can speed up to 160 pouches per minute.

#### Quadruple gripper system

Quadruples gripper system handles 4 pouches at a time to maximized machine capacity.



Product filling



Sealing / Cooling



RQ-328

## Specification

Description		Model	
		RQ-328	RQ-332
Number of Station (type)		7	8
Speed	BPM	140~160	140~160
		Speed may vary with product characteristics, pouches or other operation condition.	
Pouch Size	Width(mm)	80~120	80~100
	Length(mm)	150~250	150~250

# RG Series



LEEPACK's RG series the Rotary Fill Seal Machine for premade Side gusseted quad seal pouch. Leepack's unique mechanism and proven quality enables flexible usage with various application. Side gusseted quad seal pouches' cubic shape provides more flat printing area and unit volume, which enhances packaged product's marketability and efficiency in handling process.

## Key features

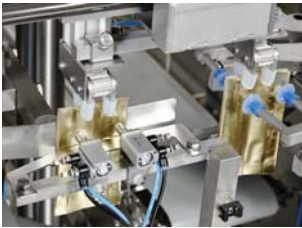
### "Rotary Fill Seal Machine - Side gusseted quad seal pouch"

#### Side gusset pouch handling

Patented unique gripping system enables pre-made side gusseted pouch can be handles in rotary packaging system.

#### Small installation space

It has core units optimally designed to pack Quad seal pouch products configured in 8 stations to minimize the space for installation.



Patented unique pouch handling mechanism



Product filling station



RG-108

## Specification

Description		Model
		<b>RG-108</b>
Number of Station (type)		8
Speed	BPM	30~40
		Speed may vary with product characteristics, pouches or other operation condition.
Pouch Size	Width(mm)	100~180
	Side gusset width(mm)	20~40
	Length(mm)	150~350

# RV Series



Leepack offers a wide range of 8/10/12 station rotary fill seal machines combined with 10/12 vacuum chambers. For any product packaging requiring higher level of vacuum, our vacuum series can be the best solution with high speed and proven performance.

## Key features

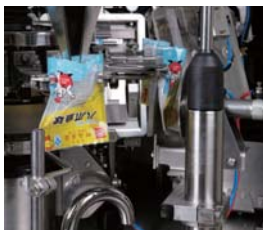
### Rotary Vacuum Fill Seal Machine

#### Rotary vacuum carousel

Integrated rotary vacuum carousel minimize oxygen level for longer shelf life.

#### Up to 50 pouches per minute

Up to 12 chambers in rotary vacuum carousel, machine can speed up to 50 pouches per minute



Product filling



Rotary vacuum chamber carousel



RV-810

## Specification

Description		Model			
		RV-810	RV-812	RV-1012	RV-1212
Number of Station		8	8	10	12
Number of Vacuum Chamber		10	12	12	12
Number of vacuum chambers may vary with capacity requirement					
Speed	BPM	30~50	30~50	30~40	30~40
		Speed may vary with product characteristics, pouches or other operation condition.			
Pouch Size	Width(mm)	100~220	(S)100~120, (M)100~170	(S)100~120, (L)100~220	100~240
	Length(mm)	Flat~300, Standup~270	(S)Flat~230, Standup~210 (M)Flat~250, Standup~230	(S)Flat~230, Standup~210 (L)Flat~300, Standup~270	100~280



# LIQUID FILLER

Leepack offers wide range of liquid and paste fillers. Liquid and Paste filling, especially under high speed is one of the tough issues which most of packaging machine makers are facing against. Our solid and utmost technology based on abundant experience will lead you to select right unit for your application.

## Application



### Liquid

Juice, Ginseng Juice, Dairy food, Shampoo, Detergent  
Edible oil, etc

### Paste and paste w/solid

Ketchup, Jam, Chilly paste, Curry, Soup  
Cooked meal, etc

## Key features

### FSP (Servo Driven Valve and Piston Filler)

#### Supreme Accuracy

It is the most intelligent and accurate liquid/paste filling system.



### FPN (Pneumatic Valve and Piston Filler)

#### Cost Efficiency

For small volume of filling, this is the great replacement for FSP at lower cost.



### FFM (Flowmeter Filler)

#### Perfect CIPable

The simplest configuration of mechanism enables CIP to be completed in shorter period.



### FSM

#### (Servo Driven Mono Pump)

#### Large Capacity

For large volume of filling especially for paste, this type assures the reliable accuracy and speed.

## Specification

Item	Model			
	FSP	FPN	FFM	FSM
Maximum Volume (cc)	~2500	~1000	No Limit	~ 5000
Accuracy	±0.5~1%	±0.5~1%	±1%	±1%

# NET WEIGHER

Leepack presents various types of granule feeding and filling machine. For any granule product even under tough requirement or production condition, our experienced engineering provides the optimized solution.

## Application

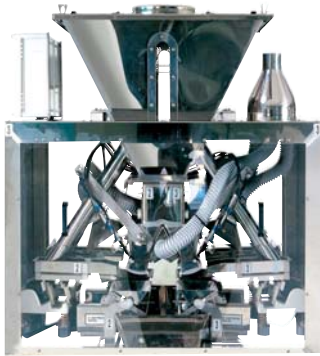


### Granule

Suger, Salt, Grain, Coffee, Nuts, Cereal, Tablet/Capsule, etc



## Key features



### SY 4GV

#### High Speed

2 step gate with 1 vibro feeder mechanism ensures better speed and performance

#### Supreme Accuracy

Efficient feeding process guarantees high level of accuracy

#### Hygienic Assembly

Main frame, feeding lanes and all other major parts are made of stainless steel to maintain utmost level of hygienic clean condition



### P Series

#### High Durability

Simple and pure mechanical system configuration provides high level of operability and durability



### A Series

#### Supreme Accuracy

Single vibrator per one lane with a pneumatic cylinder driven damper in front of trough realizes better accuracy

## Specification

Item	SY GV series			SY P/A Series			
	2GV	4GV	6GV	1	2	3	4
Number of Lane	2	4	6	1	2	3	4
Speed (CPM : cycle/minute)	20~30	40~50	60~70	10~15	20~30	30~45	45~60
Accuracy	speed may vary with product characteristics or other operation condition						
	±1%						

# AUGER FILLER

Leepack presents servo motor driven auger filler for powder product. Thanks to the servo motor technology, more delicate and accurate movement is enabled without any compromise on convenient operation and less demanding maintenance.

## Application



### Powder

Flour, Seasoning, Chilli Powder, Detergent, Chemical Powder, etc



## Key features



### AW590

#### High Accuracy

Servo motor controlled auger movement enables supreme accuracy in powder filling

#### Versatile Usage

All auger filler system can be connected with RP unit for automatic packaging system or used for stand alone unit

#### Just fit auger type

A wide auger range of the highest diversity can perfectly fit to your product and other specific requirements.

#### Easy assembly of hopper and auger

Simple and straightforward assemble and dismantle process enable more accessible change-over and maintenance at normal operators level

### AW 590DTW

Load cell based more accurate weigher checking is available while in dosing process

### AW 590TN

Uniquely designed shutter and knocker prevent over-filling so that no toner material be spilled out

### AW30KDA

Deaerating technology reduces filled package's volume, which provides more convenience and cost efficiency in overall handling process.



AW 590TN



AW 590-30KDA

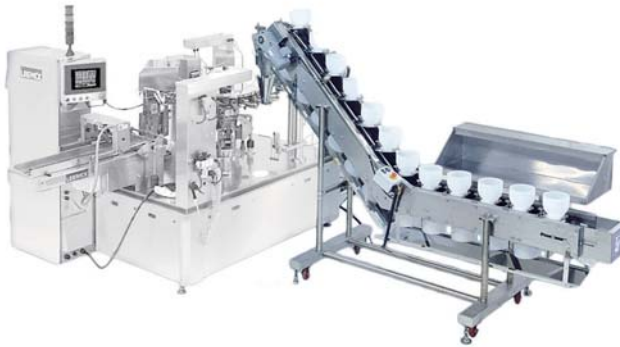
## Specification

Description	Model			
	AW590	AW590TN	AW590DTW	AW30KDA
Volume Range	10g ~ 5kg			5~30 kg
Accuracy	±0.5~1%		±0.2~1%	±1%
Size of Augers	φ 16~80 mm			



# ACCESSARY

Leepack's various type of accessories and dosing unit enables to provide more customized solution.



**Bowl Conveyor**  
BC130 (max 1300cc) BC250 (max 2500cc)



**Universal Pivot Conveyor**  
UP4 (~1000cc) UP6 (~4000cc)



**Bowl Feeder**  
BF 80 (max 800cc) BF 120 (max 1200cc)



**Screw Conveyor**  
SC150



**Bucket Lifter**  
BL25



**Turn Table**



**Pouch Flatter**



**Accumulator**



**Volumetric Filler**  
FVT100(max 100cc)  
FVT 200(max 200cc)



**Pickle Filler**  
SF500(max 500cc)

# GLOBAL PRESENCE

## EUROPE

UNITED KINGDOM  
GERMANY  
NETHERLANDS  
DENMARK  
POLAND  
FRANCE  
RUSSIA  
BELGIUM

LEEPAEK

## NORTH.A

USA  
CANADA  
MEXICO

## ASIA

JAPAN  
IRAN  
CHINA  
TURKEY  
TAIWAN  
THAILAND  
INDIA  
MALAYSIA  
INDONESIA  
PHILIPPINES

## SOUTH.A

BRAZIL  
CHILE

## MIDDLE EAST/AFRICA

ARAB EMIRATES  
SOUTH AFRICA

## OCEANIA

AUSTRALIA

# REFERENCE

## Overseas Brands



## Domestic Brands



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