

LEEPAACK

Rotary packaging equipment and engineered system

COMPANY



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

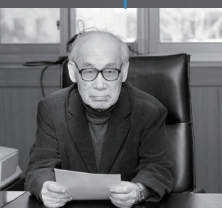
Leepack Co., Ltd, based in S. Korea, is the leading company for intermittent rotary packaging system. Product portfolio ranges from stand alone filling unit, vacuum packer and vertical form fill seal machine to rotary fill and seal machine for food, pharmaceutical and chemical product. As a result of globalwide 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



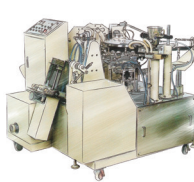
- Developed Auger filler for accurate powder filling

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

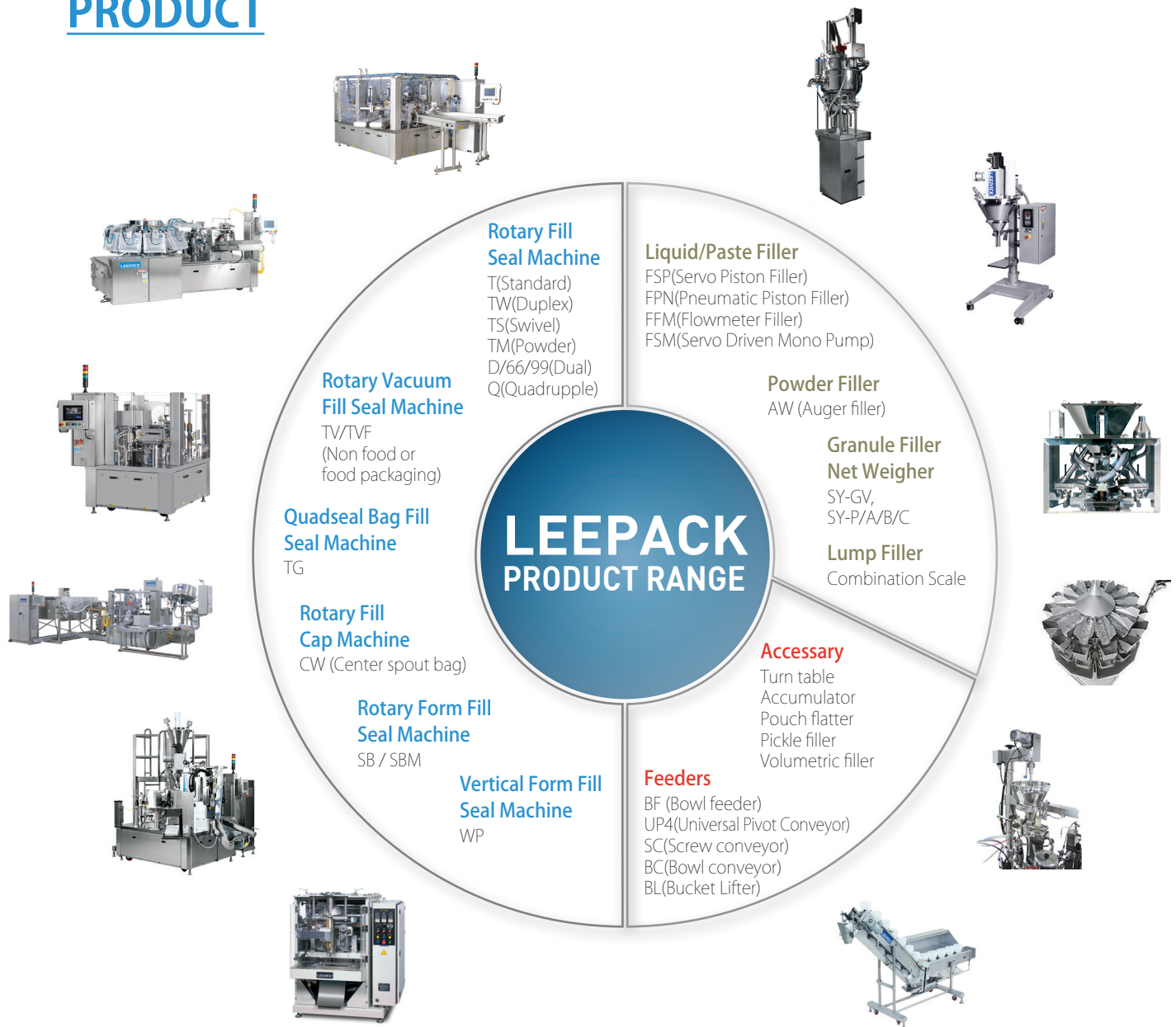
- Developed Vertical Form Fill Seal Machine



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 12,000m².
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.



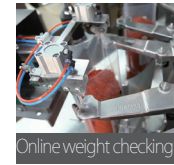
Dust remover



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
TT chain conveyor



Discharging



Cooling



Cooling & discharging

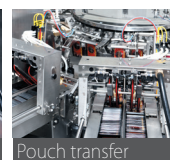
Pouch loading

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

Etc
Special pouch magazine



Pouch Magazine



Pouch transfer



Tube roll film former



Product filling

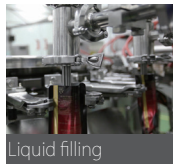
Available for integration with various filling units

Etc

Bowl feeder, cup feeder



Paste filling



Liquid filling



Granule filling (SY)



Powder filling (Auger filler)



Lump (Multihead weigher)

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



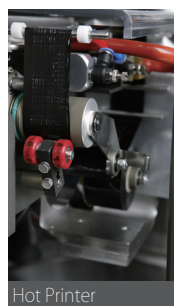
Zipper opening

Date coding

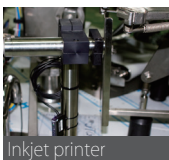
Any kind of coding unit can be implemented

Etc

Laser printer, Thermal printer

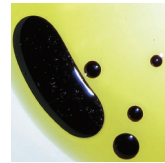


Hot Printer



Inkjet printer

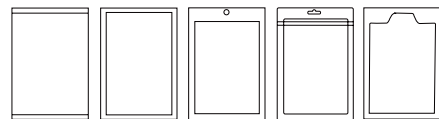
APPLICATION



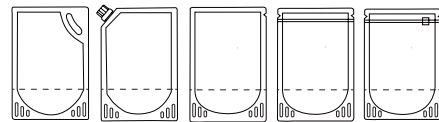
Liquid	Juice, Ginseng Juice, Dairy food, Shampoo, Detergent, Edible oil, etc
Paste and Paste w / soild	Ketchup, Jam, Chily Paste, Curry, Soup, Cooked meal, etc
Powder	Flour, Seasoning, Chilli Powder, Powder Detergent, Chemical Powder, etc
Granule	Sugar, Salt, Grain, Coffee, Nuts, Cereal, Tablet/Capsule,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

POUCH PATTERN

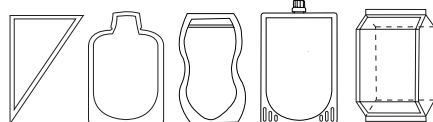
Flat



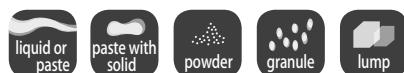
Stand up (Doypak®)



Special Shape



T Series



Leepack offers a wide range of intermittent 6/8/9/10 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

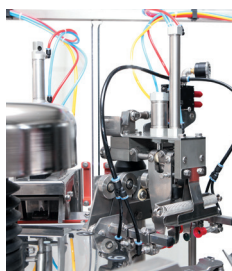
"Rotary Fill Seal Machine - Standard Simplex"

Proven standard performance

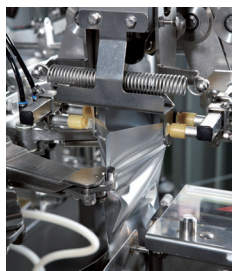
T series equipped Leepack's decades-long experience and technology will provide the best performance and satisfaction.

Wide application

Any kind of pouch, filling prouduct can be realized in Leepack's best selling T series with wider pouch width up to 400mm.



Zipper Pouch Opening



Pouch Open System



RP 8T

Specification

Description		Model						
		RP-6T(31)	RP-6T(40)	RP-8T(24)	RP-8T(30)	RP-8T(34)	RP-9T(20)	RP-10T(24)
Number of Station (type)		6(Simplex)		8(Simplex)			9(Simplex)	10(Simplex)
Speed	(BPM)	30~50	10~20	30~50		30~40	30~50	30~50
		speed may vary with product characteristics, pouches or other operation condition						
Pouch Size	Width(mm)	160~310	240~400	100~240	150~300	200~340	80~200	100~240
	Length(mm)	~425	~425	~350 (~425 optional)	~425	~425	~350	~350

TW Series



Leepack offers a wide range of intermittent 6/8/9 station duplex rotary fill seal machines to suit your needs with maximized capacity for small size packaging.

Key features

“Rotary Fill Seal Machine - Duplex”

Increase capacity

TW duplex model is specialized for increasing capacity up to 100 pouches per minute.

Patented mechanism

Patented unique system provides simple but durable performance within compact dimension.



Neutral gripper based pouch open system



Product filling



RP 8TW

Specification

Description		Model		
		RP-6TW(19)	RP-8TW(11)	RP-8TW(14)
Number of Station(type)		6(Duplex)	8(Duplex)	
Speed	(BPM)	60~80	50~100	
		speed may vary with product characteristics, pouches or other operation condition		
Pouch Size	Width(mm)	130~190	80~110	100~140
	Length(mm)	~425	~350(~425 Optional)	~425

TS Series



Leepack present 7/10 station of rotary packaging machine with swivelling filling section, which enables speedy filling for large volume, foamy liquid product

Key features

“Rotary Fill Seal Machine - Swivel Liquid Filling System”

Swivelling filling station

Swivelling filling system ensures enough filling time preventing splashing and speed decrease.

Best for foamy liquid application

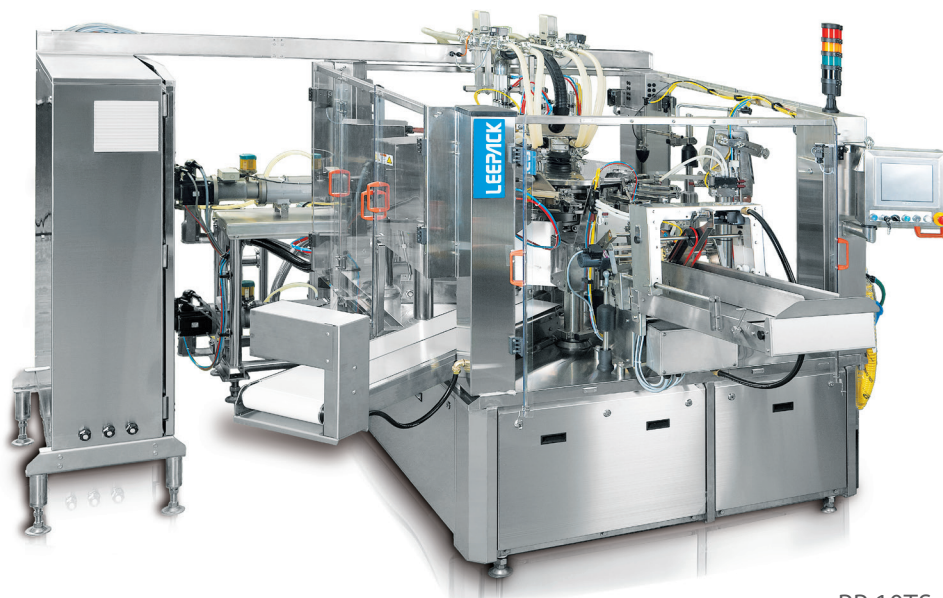
Leepack's accumulated knowhow and technology in filling system elevates capacity up to maximum level for large volume of foamy product.



Pouch Opening



Swivel filling station



RP 10TS

Specification

Description		Model	
		RP-147TS (24)	RP-10TS (24)
Number of Station (type)		7 (Duplex)	10 (Simplex)
Speed	(BPM)	30-60	30-50
		speed may vary with product characteristics, pouches or other operation condition	
Pouch Size	Width(mm)	100~240	
	Length(mm)	~350 (~425mm is optional)	

TV/TVF 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

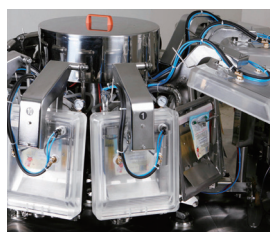
Integrated rotary vacuum carousel minimize oxygen level for longer shelf life.

Up to 50 pouches per minute

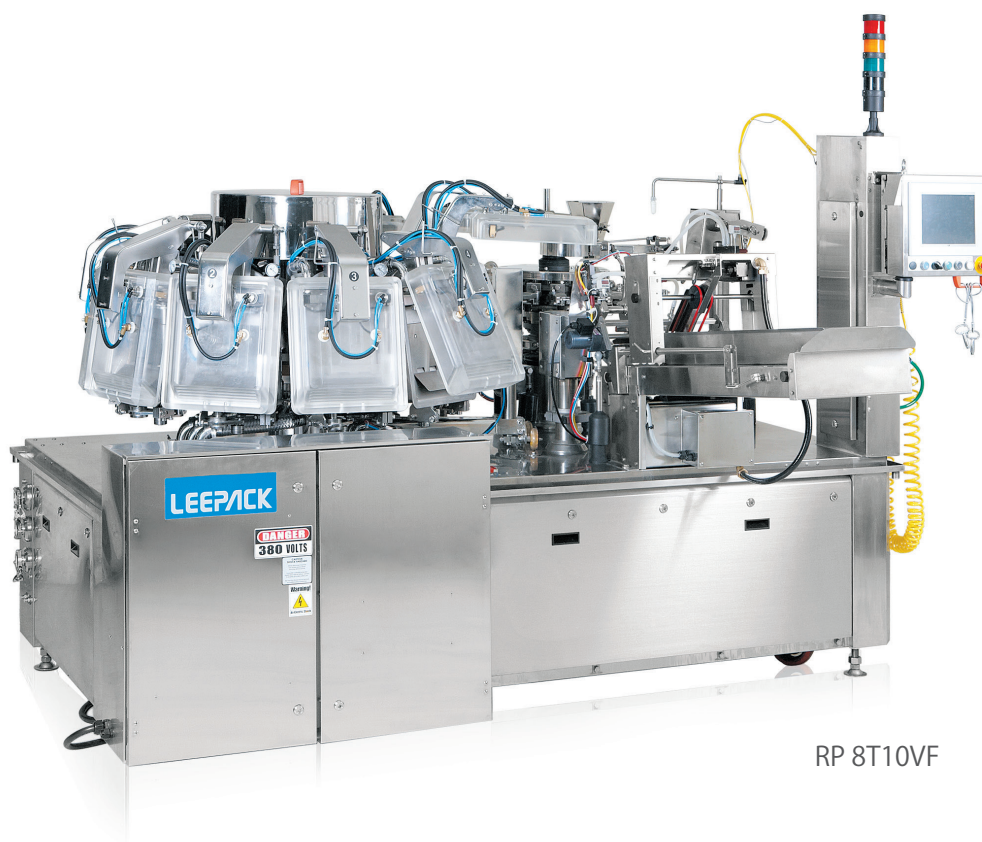
Up to 12 chambers in rotary vacuum carousel, machine can speed up to 50 pouches per minute



Product filling



Rotary vacuum chamber carousel



RP 8T10VF

Specification

Description		Model				
		RP-8T10VF	RP-8T12VF	RP-10T12VF	RP-10T12V	RP-12T12V
Number of Station		8	8	10		12
Number of Vacuum Chamber		10	12	10		12
		Number of vacuum chambers may vary with capacity requirement				
Speed	(BPM)	30~50	30~50	30~50	20~30	20~30
		speed may vary with product characteristics, pouches or other operation condition				
Pouch Width	(mm)	100~220	(S)100~120, (M)100~170	(L)100 ~ 220, (S)100-120	100~240	100~240
Pouch Length	(mm)	Flat ~300, Standup ~270	(S)Flat~230 Standup ~210 (M)Flat ~250 Standup ~230	(L)Flat ~300, Standup ~270 (S)Flat~230 Standup ~210	100~280	100~280

D Series



Leepack offers a wide range of intermittent 6/7/8/9 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 300mm.

Up to 120 bpm

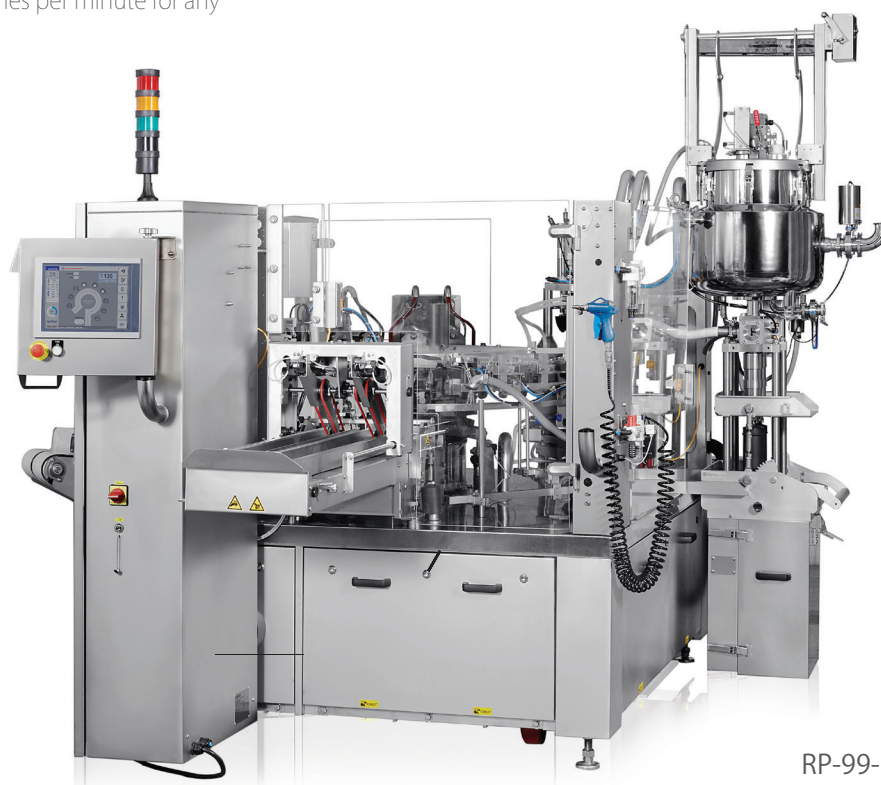
Machine can speed up to 120 pouches per minute for any product application.



Liquid filling



Position & Two-sheet detection



RP-99-13

Specification

Description		Model					
		RP-126D(30)	RP-147D (24)	RP-168D (20)	RP-66-18	RP-99-13	RP-99-18
Number of Station		6	7	8	6	9	9
Speed	(BPM)	60~90			80~100	80~120	60~80
		speed may vary with product characteristics, pouches or other operation condition					
Pouch	Width(mm)	150~300	100~240	100~200	100~180	80~130	100~180
	Length(mm)	~425	~350(425 Optional)		~350	~350	~350

Q 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

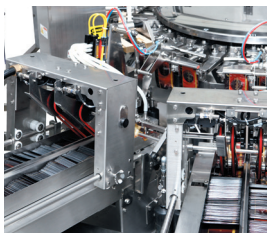
“Rotary Fill Seal Machine - Quadruple gripper system”

Up to 200 bpm

For small liquid product, machine can speed up to 200 pouches per minute.

Quadruple gripper system

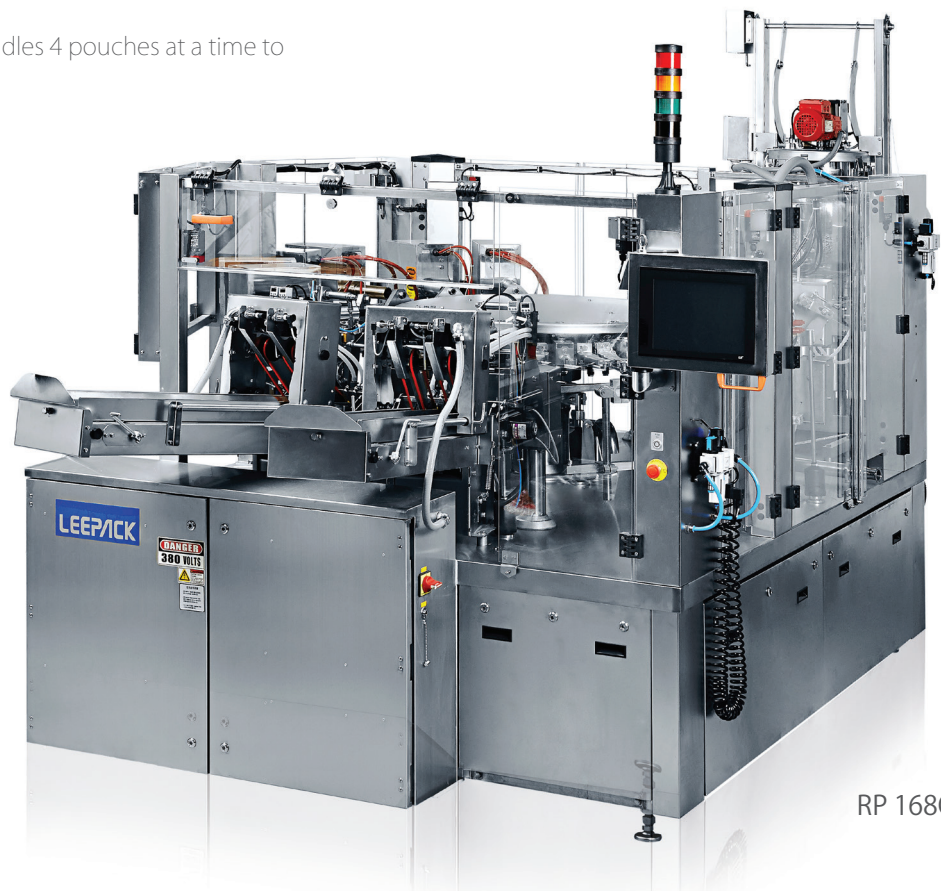
Quadruples gripper system handles 4 pouches at a time to maximized machine capacity.



4 Pouch handling transfer system



Product-filling



RP 168Q

Specification

Description		Model	
		RP-147Q (11)	RP-168Q (10)
Number of Station		7 Quadruple	8 Quadruple
Speed	(BPM)	120~180	120~200
		speed may vary with product characteristics, pouches or other operation condition	
Pouch Size	Width(mm)	80~110	80~100
	Length(mm)	~350	~350

TM Series



Leepack presents 10 station of rotary packaging machine with feedback controlled 2 auger fillers, which enables more accurate and fast powder packaging process.

Key features

“Rotary Fill Seal Machine - Feedback Controlled Powder Filling”

Feedback controlled supreme accuracy

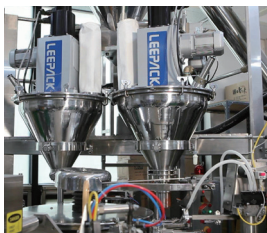
Road cell based feedback controlled filling system guaranteed utmost accuracy in powder product

High cost powder product

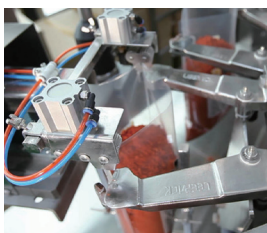
Thanks to servo driven auger fillers, high cost powder product can be filled with this model.

On-line rejecting system

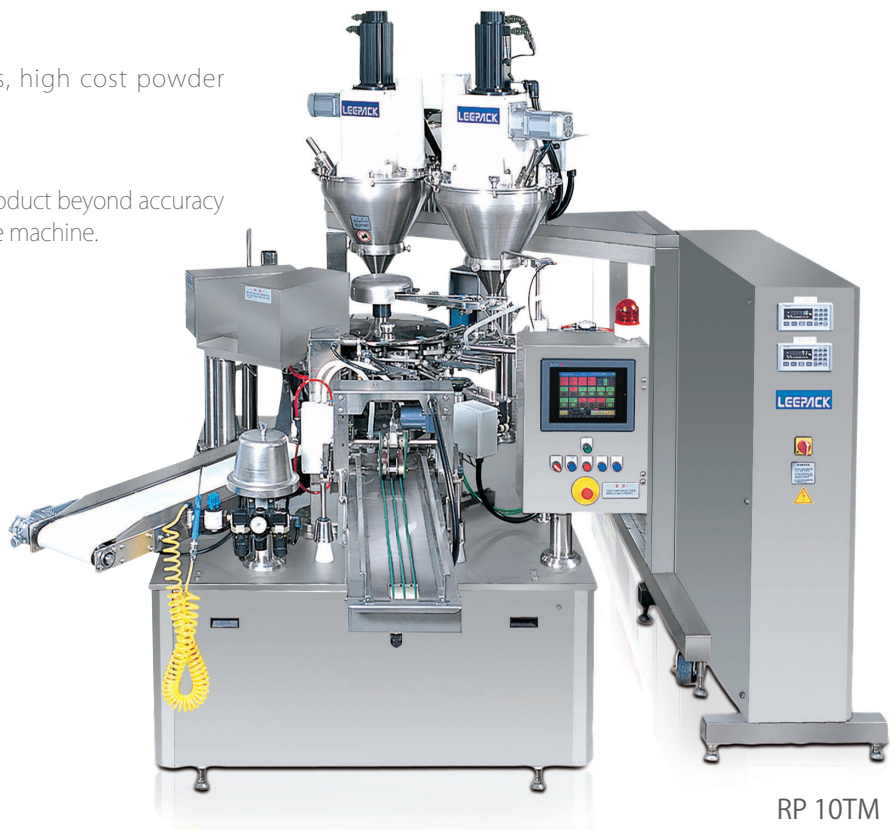
After second weight checking station, product beyond accuracy range is automatically sorted out from the machine.



Powder filling



Weight checking station



RP 10TM

Specification

Description		Model
		RP-10TM
Number of Station		10 (Simplex)
Speed	(BPM)	20~30
		speed may vary with product characteristics, pouches or other operation condition
Pouch Size	Width(mm)	100~240
	Length(mm)	~350

TG Series



Leepack offers intermittent rotary fill seal machine for premade side gusseted quad seal pouches. 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

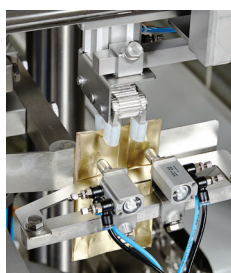
"Rotary Fill Seal Machine - Side gusseted quad seal pouch"

Side gusset pouch handling

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

Simple/compact handling

Consisted of 6 station with all key devices occupies minimum space.



Patented unique pouch handling mechanism



Product filling station



RP 8TG

Specification

Description		Model	
		RP-6TG	RP-8TG
Number of Station(type)		6 (Simplex)	8 (Simplex)
Speed	(BPM)	30~40	30~40
		speed may vary with product characteristics, pouches or other operation condition	
Pouch Size	Width(mm)	~200	60~120
	Side gusset width(mm)	~80	20~40
	Length(mm)	~425	120~170

TSB Series



Leepack offers intermittent rotary form fill seal machine for tubular film. SB series based on tube film offers simple and economic packaging solution.

Key features

“Rotary Form Fill Seal Machine for Tube Roll Film “

Tube-roll PE/EVA film forming system

Tube-roll film made of PE/EVA is the best solution for economic packaging solution. Since there is no center seal, it provides better presentation than VFFS 3 side seal packages.

Best for bulk and overwrapping

Its cost benefit and good presentation make this model more attractive for bulk and overwrapping product.



Powder filling



Tube roll film forming



RP 10TSB

Specification

Description		Model			
		RP-6TSB (30)	RP-8TSB (24)	RP-8TSB (30)	RP-10TSB (24)
Number of Station		6	8		10
Speed	(BPM)	30~50			
		speed may vary with product characteristics, pouches or other operation condition			
Pouch	Width(mm)	160~300	100~240	160~300	100~240
	Length(mm)	~350 (~425mm is optional)			

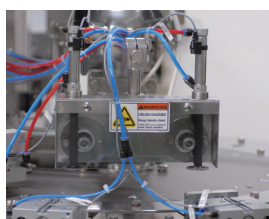
CW Series



Leepack presents rotary center spout pouch fill cap machine. This machine is the best solution for those who want to get a marketing advantage through unique premade center spout pouch.



Pouch loading



Checking detection

Key features

Rotary Fill Cap Machine

Center spout fitment

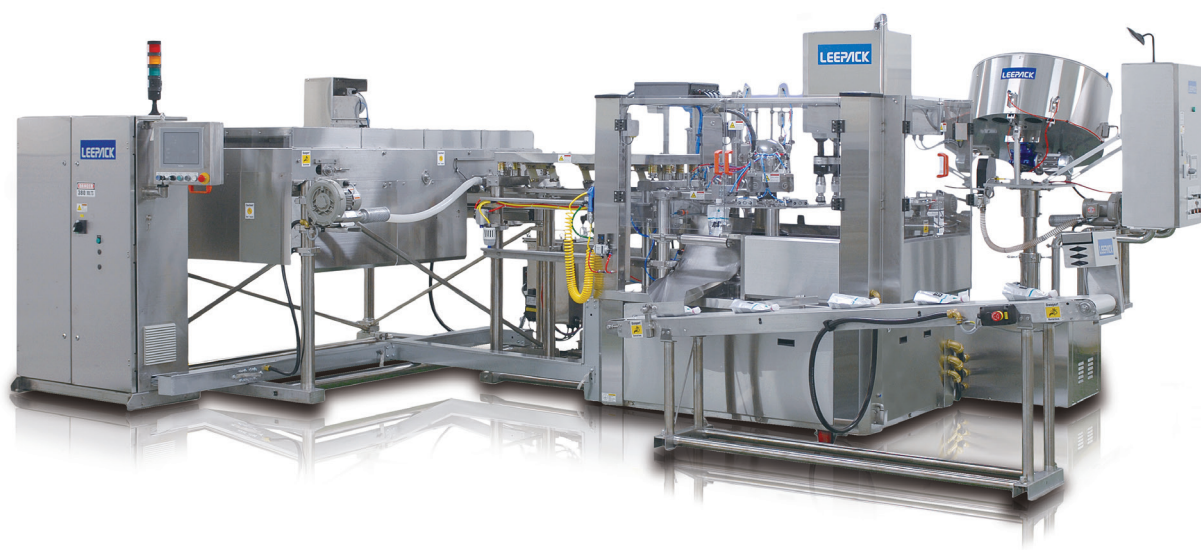
Duplex center spout pouch can handle large volume of liquid/paste product

ATEX certified

CE ATEX certified machine enables explosive paint filling in rotary machine.

Automatic pouch feeding system

8 rails of buffer feeding system elevates user convenience to operate the machine



RP 6CW

Specification

Description		Model
		RP-6CW
Number of Station		6 Duplex
Speed	(BPM)	30~40
		speed may vary with product characteristics, pouches or other operation condition
Pouch Size	Width(mm)	100~200
	Length(mm)	~300mm

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

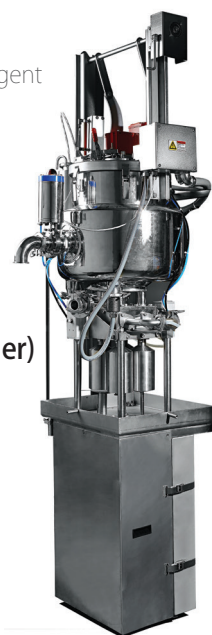
Ketchup, Jam, Chily paste, Curry, Soup
Cooked meal, etc

Key features

FSP (Servo Driven Valve and Piston Filler)

Supreme Accuracy

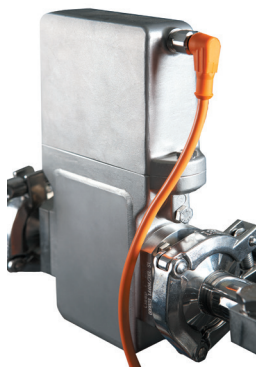
It is the most intelligent and accurate liquid/paste filling system.



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

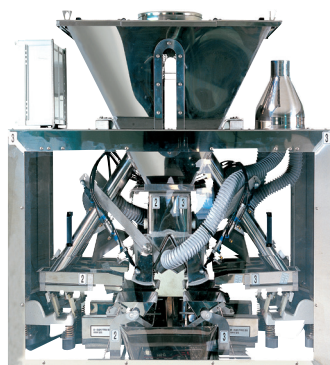


Granule

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

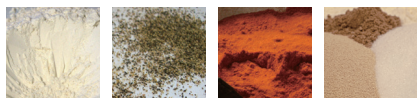
Specification

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
	speed may vary with product characteristics or other operation condition						
Accuracy	±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



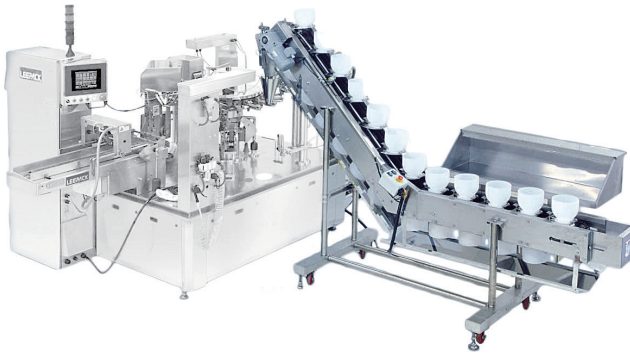
AW 590-30KDA

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			

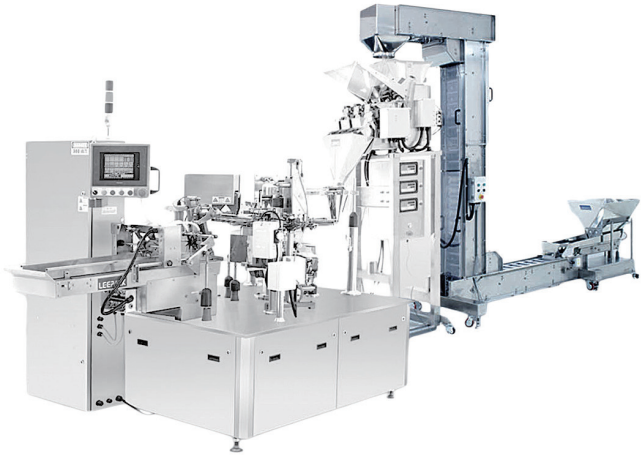
ACCESSARY

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



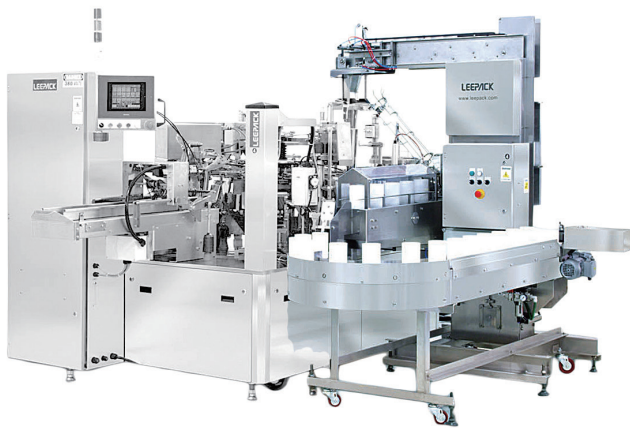
Bowl Conveyor

BC130 (max 1300cc) BC250 (max 2500cc)



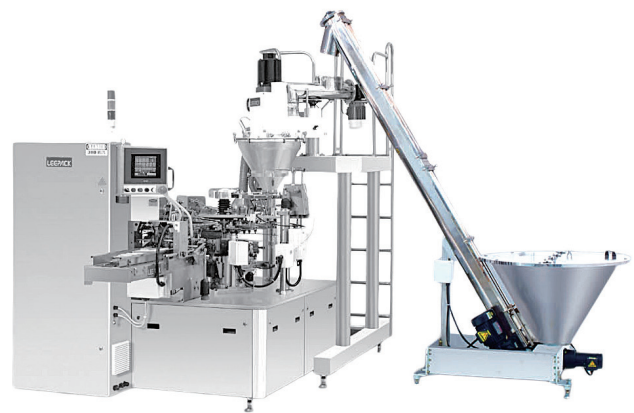
Universal Pivot Conveyor

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)

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REFERENCE

Overseas Brands



Domestic Brands



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