

OLD RIVERS

PRODUCT CATALOG

THE BEST SOLUTION FOR FUTURE PACKAGING

Vacuum Packaging Machine

Filling Sealing Machine

Bag-Filling Machine · Shaping Machine

Filling Instruments · Dumping Device

Others · Related Equipment



FURUKAWA MFG. CO.,LTD.



Furukawa supports your business by vacuum packaging machines, filling-sealing machines and well-developed lineup of products, which are provided for many packaging systems according to the market.

COMPANY OUTLINE

NAME : Furukawa Mfg. Co., Ltd.
PRESIDENT : Masaaki Furukawa
ESTABLISHED : June 1957

BOARD MEMBERS :

President : Masaaki Furukawa
Director : Yoshinobu Yamane
Director : Seiji Makita
Auditor : Katsuaki Watanabe

MAJOR STOCK HOLDERS :

Osaka Small Business Investment Co., Ltd.
The Chugoku Bank, Ltd.
The Hiroshima Bank, Ltd.
Sumitomo Mitsui Banking Corporation
The Sumitomo Trust & Banking Co., Ltd.
Nippon Life Insurance Company
Tokyo Marine & Nichido Fire Insurance Co., Ltd.

PRODUCTS :

Vacuum Packaging Machines,
Automatic Filling-Sealing Machines,
Tray Sealing Machines,
Automatic Sterilizing-cooling-drying machines,
Design and manufacture of various machines
for food industry..

EMPLOYEES : 246 (As of January 2023)

SUPPORTING BANK :

The Chugoku Bank, Ltd.
The Hiroshima Bank, Ltd.
Sumitomo Mitsui Banking Corporation
The Sumitomo Trust & Banking Co., Ltd.



The challenge of Quality

It all begins with quality

Our machines must be free from error since they pack things, such as food, precision machinery, and medical instruments, which are related to our health. That is why improving quality is our constant theme. Especially during the development stage, we always design machines focusing on the highest quality, without pursuing unnecessary speed increases or diversity of uses.

Old Rivers has achieved economization and systematization, and gained the trust of our customers with its incomparable quality.

Furukawa's attitude of seeking perfection in every aspect can be seen in its excellent finish, sealing performance, and durability.

The challenge of Markets

A network covering a vast market

Furukawa has actively pioneered markets with its outstanding technology and know-how. Our customers currently number more than 10,000, including those overseas. The number of rotary chamber vacuum packaging machines exported to the U.S.A. has surpassed 1,500. Considering the potential needs of vacuum packaging in the world, this figure will only increase.

In order to serve so many customers, we have established sales and service network systems throughout Japan, based on our 15 sales offices from Hokkaido to Kyushu. These systems play an important role in supplying products smoothly and as information bases that can quickly listen to user voices. To what extent will we satisfy the customers' needs? We are facing the new era of networks with a user-oriented attitude.

The challenge of New Fields

Developing new fields

Furukawa's challenge of new fields began with its entry into the unexplored field of vacuum packaging. We strove for new market possibilities as an industry pioneer. How to link ideas to theory; how we can evolve our technology; how to make the impossible possible-this is the engineer's spirit that realizes dreams. Our more than 250 patents testify of our product development.

We will satisfy market needs, not only by developing the machines, but also offering our development power based on our macro-scopic, systematic vision of the market, covering the packaging system in factories to the distribution system.

The challenge of Time

Technology and service by air

In fields such as foods, state-of-art technology, and medicine, where freshness is required, user trust is gained by timeliness.

Our Hiroshima General Headquarters is located close to The Hiroshima International Airport. This new airport allows us to give our customer the fastest maintenance and service system, where time is of the utmost. but also convenient for the visitors to our facility from overseas and Japan.

The time effectiveness of transportation in the sky is highly appreciated by busy business people. Breaking down the barriers of time by new transportation system is part of our user-oriented attitude.



OFFICES AND PLANTS

HIROSHIMA GENERAL HEADQUARTERS & PLANT (Overseas Department) :

200-65, Obara, Nutanishi-Cho, Mihara-Shi
Hiroshima-Ken 729-0492 Japan
Tel.0848-86-5853 Fax.0848-86-6350
URL.https://www.furukawa-mfg.co.jp

TOKYO HEAD OFFICE :

6-19-12, Ohi, Shinagawa-ku, Tokyo 140-0014 Japan
Tel:(03)-3774-3311 Fax:(03)-3774-2110

SALES OFFICES IN JAPAN :

Sapporo, Morioka, Sendai, Niigata, Takasaki, Satta, Shizuoka
Nagano, Nagoya, Osaka, Sakaide, Fukuoka, Miyakonojo.
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OVERSEAS OFFICE :

TAIPEI OFFICE

Taipei World Trade Center
7C07, 5 Hsin Yi Road, Sec. 5 Taipei, Taiwan R.O.C.
Tel: 02-2725-3429 Fax: 02-2723-2030

OLD RIVERS (THAILAND) CO.,LTD

6th Floor,165,165/1 Soi Sukhumvit93(Phungmi)
Sukumvit Road Bangchak Prakanong,Bangkok 10260 Thailand
Tel:(+66)2-331-8905 Fax:(+66)2-331-8906

Shanghai Furukawa packaging machinery Co.,Ltd

Room 106, 108, Building No. 4. 1998, South Yanggao Road,
Pudong New Area, Shanghai 200125 China
Tel:(+86)21-6831-3500 Fax:(+86)21-6831-3330

Shanghai Furukawa packaging machinery Co.,Ltd CHENGDU OFFICE

Room118, ChuangFu Center A Building, No.139, South Xiedu Road,
Wuhou District, Chengdu,Sichuan 610041 China
Tel:(+86)28-87481189

PT. INDO GUNA PAK

Ruko Asia Tropis Jin. Ruko Grand Boulevard Blok
AT 12 No.11 Kota Harapan Indah-Bekasi
Tel:(+62)21-8838-2060 Fax:(+62)21-8838-2060

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Product	Function
Seafood (Fresh fishes, fish processing, delicacy, frozen foods, pet foods, etc.)	On-board microcomputer
Agricultural foods (Vegetables, pickles, wild vegetables, grain foods, daily dish, retort foods, etc.)	Built-in touch panel
Livestock (Raw meat, broiler chicken, processed meat, etc.)	Number (& position) of sealing bars
Sweets (Candies, peanuts, sponge cakes, steamed bean-jam bun, etc.)	Gas flushing
Powder (Chemical, medicines, wheat flour, spices, additives, etc.)	Deeper vacuum chamber
Industrial products (Chemicals, drugs, machine parts, electronic parts, semi-conductor, etc.)	Counter-rotating model
Packaging style	Dual feeding model
Bag (4 side sealed, gusset, PE tube, clip, standing, etc.)	Horizontal inserting
Skin packaging	
Top seal	

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Packaging machine capacity varies with products, vacuum pumps and gas filling volume. Capacities for filling device and feeding device vary with the products, amount, temperature, viscosity and the piston stroke of the device. Capacities for bag making machine vary with the thickness of the film.

Vacuum packaging machine

Select an optimum machine type according to the products, packaging sizes, layout and volume of production.

FVC II series



- Vacuum pump (with inlet filter) is built into the machine.
- The machine with casters is easily moved.

Compact vacuum packaging machine

FVC II

Capacity (shot/min.) 2~4
Seal to bottom length(mm) 400
Seal length (mm) 518



FVC II

Compact vacuum gas packaging machine

FVC II-G

Capacity (shot/min.) 1~2
Seal to bottom length(mm) 400
Seal length (mm) 518



FVC II-G

FVS II series



- Vacuum pump (with inlet filter) is built into the machine.
- Liquid product can be packed by changing a setting angle.
- The machine with casters is easily moved.

Auto vacuum packaging machine

FVS II-400 II

Capacity (shot/min.) 1.5~2.5
Seal to bottom length(mm) 343
Seal length (mm) 890



FVS II-400×150

Capacity (shot/min.) 1~2
Seal to bottom length(mm) 347
Seal length (mm) 890



Auto vacuum packaging machine

FVS II-500×150

Capacity (shot/min.) 1~1.5
Seal to bottom length(mm) 447
Seal length (mm) 890



FVS II-500 II

Capacity (shot/min.) 1~2
Seal to bottom length(mm) 444
Seal length (mm) 890



FVS II-500L

Capacity (shot/min.) 1~2
Seal to bottom length(mm) Main447 · Sub947
Seal length (mm) Main830 · Sub365



FVS II-500 II

FVS II-G series

- Vacuum pump (with inlet filter) is built into the machine.
- Liquid product can be packed by changing a setting angle.
- The machine with casters is easily moved.

Auto vacuum gas packaging machine

FVS II -400 II G

Capacity (shot/min) 1~2
Seal to bottom length(mm) 345
Seal length (mm) 890

FVS II -400×150G

Capacity (shot/min) 1~1.5
Seal to bottom length(mm) 347
Seal length (mm) 890



FVS II -400 II G

Auto vacuum gas packaging machine

FVS II -500 II G

Capacity (shot/min) 1~1.5
Seal to bottom length(mm) 445
Seal length (mm) 890

FVS II -500×150G

Capacity (shot/min) 1~1.5
Seal to bottom length(mm) 447
Seal length (mm) 890



FVS-7 · FVS-NV series

- Vacuum pump (with inlet filter) is built into the machine.
- Liquid product can be packed by changing a setting angle.
- The machine with casters is easily moved.

Auto vacuum packaging machine

FVS-7-400 II

Capacity (shot/min) 2~3
Seal to bottom length(mm) 340
Seal length (mm) 890



FVS-7-400 II

Auto vacuum packaging machine

FVS-500NV

Capacity (shot/min) Vacuum : 1~2 · Nozzle deaeration : 2~3
Seal to bottom length(mm) 440 Seal length (mm) 890

Auto vacuum gas packaging machine

FVS-500NV-G

Capacity (shot/min) 1~2
Seal to bottom length(mm) 440
Seal length (mm) 890



FVS-500NV

Vacuum packaging machine



FVS-3 series

- For longer bags
- ※ The vacuum pump should be placed separately.

Auto vacuum packaging machine

FVS-3

Capacity (shot/min.) 1~2
 Seal to bottom length(mm) Main630・Sub 1,120
 Seal length (mm) Main890・Sub640



200mm



FVS-3

Auto vacuum packaging machine

FVS-3S II

Capacity (shot/min.) 1~2
 Seal to bottom length(mm) Main640・Sub 1,050
 Seal length (mm) Main940・Sub540×2parts



Auto vacuum gas packaging machine

FVS-3S II G

Capacity (shot/min.) 1
 Seal to bottom length(mm) 1,105
 Seal length (mm) 625



200mm



FVS-3S II

FVH series



- This machine has a transverse system conveyor belt at the product discharge part.
- This machine flexibly handles line production of the post process by the smoothness of the product discharge after packaging
- ※ The vacuum pump should be placed separately.

Transverse system vacuum packaging machine

FVH-S1 (L)

Capacity (shot/min.) 2~3
 Seal to bottom length(mm) 660 (seal to seal)
 Seal length (mm) 1,100×2parts



FVH-S1W

Capacity (shot/min.) 1~2
 Seal to bottom length(mm) 1,000 (seal to seal)
 Seal length (mm) 1,100×2parts



FVH-S1L

HI series



- The product on the film (tray, form plate) is packed in absolute contact with a thermo-softened film.
- The time and effort of product filling can be saved, and since a film is packaged softly, the product is not deformed.
- Since upper and lower films are contacted firmly to the product, the drip loss is reduced. Thus, this series is suitable for the packaging of frozen products too.
- Vacuum pump (with inlet filter) is built into the machine.

HI-Man

HI-750

Capacity (shot/min.) 1.5~2.5
 Lower film size (mm) 700×490

HI-750 II

Capacity (shot/min.) 1.5~2.5
 Lower film size (mm) 700×490



HI-750

HI-Man

HI-750IS

Capacity (shot/min.) 1.5~2.5
 Seal to bottom length (mm) 400 (In bag using)
 Seal length (mm) 546 (In bag using)
 Lower film size (mm) 700×490



HI-750IS

FVB series

- The conveyor belt transfers products forward to increase the production capacity.
- Liquid product can be packed by changing a setting angle.
- The machine with casters is easily moved.(option)
 - ※ The vacuum pump should be placed separately.

Belt type vacuum packaging machine

FVB-U9 II -400

Capacity (shot/min.) 2~4
Seal to bottom length(mm) 345
Seal length (mm) 1,090

FVB-U9 II -400×110

Capacity (shot/min.) 2~4
Seal to bottom length(mm) 345
Seal length (mm) 1,090



FVB-U9 II -500

Capacity (shot/min.) 2~4
Seal to bottom length(mm) 435
Seal length (mm) 1,090

FVB-U9 II -500×110

Capacity (shot/min.) 2~4
Seal to bottom length(mm) 435
Seal length (mm) 1,090



FVB-U9 II -500W

Capacity (shot/min.) 1~2
Seal to bottom length(mm) 200(seal to seal)
Seal length (mm) 1,090



FVB-U9 II -500

Belt type vacuum packaging machine (soft-discharge model)

※ The product can be smoothly discharged with less drop by a movable discharge chute.

FVB-UX-400

Capacity (shot/min.) 2~4
Seal to bottom length(mm) 345
Seal length (mm) 1,090



FVB-UX-500

Capacity (shot/min.) 2~4
Seal to bottom length(mm) 435
Seal length (mm) 1,090



FVB-UX-400

Belt type vacuum gas packaging machine

FVB-U4-370 II G

Capacity (shot/min.) 1.5~2
Seal to bottom length(mm) 300
Seal length (mm) 890



FVB-U4-430 II G

Capacity (shot/min.) 1.5~2
Seal to bottom length(mm) 360
Seal length (mm) 890

FVB-U5-500 II G

Capacity (shot/min.) 1~3
Seal to bottom length(mm) 440
Seal length (mm) 1,090



FVB-U4-430 II G

FVB-UC series

- Machine size is reduced in a compact type and power used is also reduced, thus resulting in energy-saving.
- Vacuum pump (with inlet filter) is built into the machine.
- The product in bag can be transferred by the belt system and the belt is easy-detachable.
- Liquid product can be packed by changing a setting angle.
- The machine with casters is easily moved.(option)

Compact belt type vacuum packaging machine

FVB-UC-400

Capacity (shot/min.) 1~3
Seal to bottom length(mm) 345 Seal length (mm) 890



FVB-UC-400×110

Capacity (shot/min.) 1~3
Seal to bottom length(mm) 345 Seal length (mm) 890



FVB-UC-400

(The front cover showed in the picture is an optional item.)



FVM series

- This machine is suitable for a large packaging such as block meat, etc.,
- ※ The vacuum pump should be placed separately. ※ Air source must be provided separately. (FVM-J, FVM-4WIII)

Vacuum packaging machine for large products

FVM-WM

Capacity (shot/min.) 1~2
 Seal to bottom length(mm) 790 (seal to seal)
 Seal length (mm) 640 × 2parts

Vacuum gas packaging machine for large products

FVM-WMG

Capacity (shot/min.) 1~2 
 Seal to bottom length(mm) 790 (seal to seal)
 Seal length (mm) 640 × 4parts



FVM-WM

Vacuum packaging machine for large products

FVM-4WIII (-L / -R)

Capacity (shot/min.) 1~2
 Seal to bottom length(mm) 1,000 (seal to seal)
 Seal length (mm) 670 × 2parts



FVM-4WIII-L

FVF series



- Vertical chamber vacuum packaging machine for large industrial bag, suitable for solid products, which two-stage filling is not required.
- This is one spindle model for the space-saving and the product weight of max. 10kg can be packaged. (FVF-450)

※ The vacuum pump should be placed separately. ※ Air source must be provided separately.

Vertical chamber vacuum packaging machine

FVF-275

Capacity (bag/min.) 6~10
 Usable bag/width x length (mm) 170~275 × 200~380



FVF-275

Vertical chamber vacuum packaging machine

FVF-450 (H)

Capacity (bag/min.) 2~5
 Usable bag/width x length (mm) 250~450 × 350~500

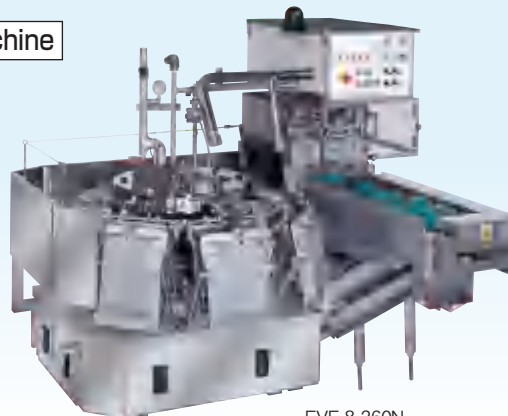


FVF-450(H)

Vertical chamber vacuum packaging machine

FVF-8-260N

Capacity (bag/min.) 15~22
 Usable bag/width x length (mm) 200~250 × 280~380



FVF-8-260N

(The discharge conveyor in photo is an option)

FVR / 8600 series (Distributed by Cryovac)



● Suitable for the high speed packaging of small (thin) products through large (thick/long) products, and there are various models which can be connected with horizontal form fill seal machine.

※The vacuum pump should be placed separately. ※Air source must be provided separately.(8600-14D·14ELD, 14ELJ, and 8610T-14)

FVR series

Rotary chamber vacuum packaging machine

FVR-8-175N

Capacity (bag/min.) 23~70
Seal to bottom length(mm) 345
Seal length (mm) 175

FVR-8-175NW1

Capacity (bag/min.) 20~60
Seal to bottom length(mm) 160~220 (seal to seal)
Seal length (mm) 175×2parts

FVR-8-260N

Capacity (bag/min.) 16~50
Seal to bottom length(mm) 358
Seal length (mm) 260

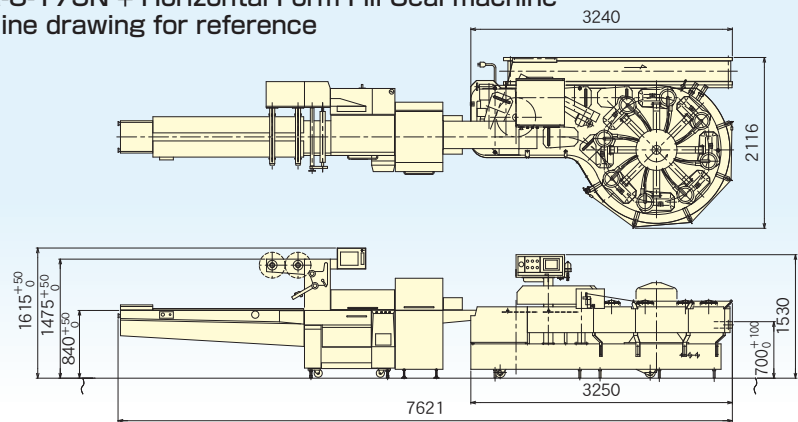
FVR-8-260N- I

Capacity (bag/min.) 16~50
Seal to bottom length(mm) 358
Seal length (mm) 260



FVR-8-175N

FVR-8-175N + Horizontal Form Fill Seal machine Outline drawing for reference



8600 series

Rotary chamber vacuum packaging machine

8600-14D

Capacity (bag/min.) 20~50
Seal to bottom length(mm) 470
Usable bag width(mm) 360 (max.)



8600-14ELJ

Capacity (bag/min.) 12~40
Seal to bottom length(mm) 670
Usable bag width(mm) 360 (max.)



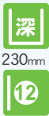
8600-14ELD

Capacity (bag/min.) 12~35
Seal to bottom length(mm) 670
Usable bag width(mm) 360 (max.)



8600B-18D

Capacity (bag/min.) 10~30
Seal to bottom length(mm) 670
Usable bag width(mm) 460 (max.)



8600-14D

Rotary chamber vacuum packaging machine

8610T-14

Capacity (bag/min.) 7~21
Seal to bottom length(mm) 620
Usable bag width(mm) 360 (max.)



8610T-14
(The discharge conveyor in photo is an option)



FVV series

Fulfilling functions and various optional equipments make the automation of various vacuum packaging operations a reality.

- This machine is a two rotary type separated into two sections (filling part and vacuum part). The filling part is moved intermittently and the vacuum part is rotated continuously.
- The bag recycle mechanism reduces the loss of empty bags as standard equipment.
- The inside of vacuum chamber is washable.
- The auto weighing machine and feeding device can be interlocked.
- Timing can be adjusted with an electronic cam.
- The central lubrication feature is applied for the parts inside the machine frame. (lubricated some parts from outside)
- If a heater element is burned out, an alarm screen shows and the machine stops.

※The vacuum pump should be placed separately.
 ※Air source must be provided separately.



FVV-10-220NIII

Vertical chamber vacuum packaging machine

FVV-10-220NIII

Capacity (bag/min.) 10~45
 Usable bag/width x length (mm) 80~220×150~300

FVV-10-220NIII-L

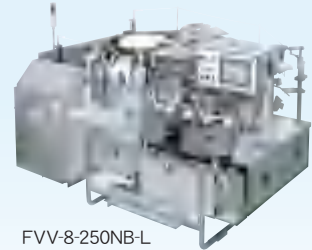
Capacity (bag/min.) 10~45
 Usable bag/width x length (mm) 80~220×150~300



Vertical chamber vacuum packaging machine

FVV-8-250NB-L

Capacity (bag/min.) 10~35
 Usable bag/width x length (mm) 150~250×280~380



FVV-8-250NB-L

(The photograph shows the machine with optional spec.)
 (There are other models, FVV-8-250NB-R / -LL / -RR.)



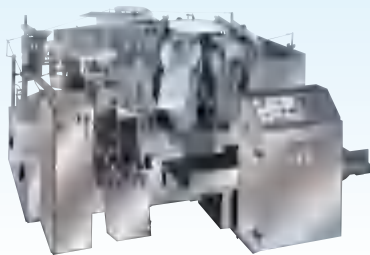
Vertical chamber vacuum packaging machine

FVV-8-180N-R

Capacity (bag/min.) 10~30
 Usable bag/width x length (mm) 100~180×150~500※

FVV-8-180N-L

Capacity (bag/min.) 10~30
 Usable bag/width x length (mm) 100~180×150~500※



FVV-8-180N-R

(※FVV-8-180NL handling longer bag up to 550mm is also in the product lineup.)

Vertical chamber vacuum packaging machine

FVV-8-275N-R

Capacity (bag/min.) 10~35
 Usable bag/width x length (mm) 160~275×150~380

FVV-8-275N-L

Capacity (bag/min.) 10~35
 Usable bag/width x length (mm) 160~275×150~380



FVV-8-275N-R

Vertical chamber vacuum packaging machine

FVV-12-150N

Capacity (bag/min.) 10~60
 Usable bag/width x length (mm) 80~150×100~250



FVV-12-150N

Vertical chamber vacuum packaging machine

FVV-10×10-220N

Capacity (bag/min.) 10~45
 Usable bag/width x length (mm) 80~220×150~300



FVV-10×10-220N

(The photograph shows the machine with optional spec.)

Vacuum packaging machine

Filling-sealing machine

Bag-filling machine/feeding machine

Filling device/feeding device

Other related equipment

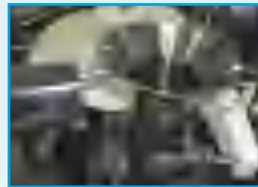
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Filling process of standard machine

● 8 stations(FVV-10-220NⅢ)



④ (Liquid filling) vibration



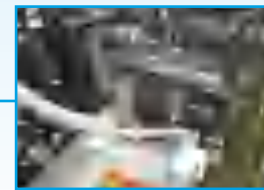
③ Product filling
(Bag support)



② Bag mouth opening
(Date coding)



⑦ Bag transfer



① Bag feeding

①	②	③	④	⑤	⑥	⑦	⑧
Bag feeding	Bag mouth opening (Date coding)	Product filling (Bag support)	(Liquid filling) vibration	/	/	Bag transfer	/

Each item in () shows an optional device.

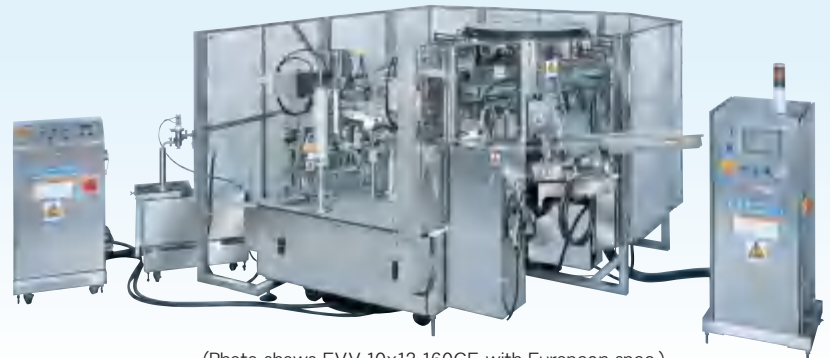
Vertical chamber vacuum gas packaging machine

FVV-10×10-220GE

Capacity (bag/min.)
10~25
Usable bag/width x length (mm)
160~220×150~300

FVV-10×12-160G

Capacity (bag/min.)
10~35
Usable bag/width x length (mm)
100~160×150~250



(Photo shows FVV-10x12-160GE with European spec.)

Vertical chamber vacuum packaging machine

FVV-8×10-160WN

Capacity (bag/min.)
30~90
Usable bag/
width x length (mm)
80~160×100~250



FVV-8×10-160WN

Vacuum packaging machine

Filling-sealing machine

Bag-forming machine/
forming machine

Filling device/
feeding device

Other related equipment

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FHV series

- This machine is a two rotary type separated into two sections (filling part and vacuum part).
- The horizontal inserting conveyer inserts the product horizontally and it keeps form and orientation while packaging.
- The product which is hard to be inserted vertically can be handled by surrounding and pushing it by the tray.
- The inside of the vacuum chamber is tilted to prevent liquid from spurting during the vacuum process, and it is washable.

※The vacuum pump should be placed separately. ※Air source must be provided separately.

Horizontal chamber vacuum packaging machine

FHV-8-220-L

Capacity (bag/min.) 10~30

Usable bag/width x length (mm) 130~220×200~300



FHV-8-220-L (The horizontal inserting conveyor shown in the photograph is a option.)

Horizontal chamber vacuum packaging machine

FHV-8-275

Capacity (bag/min.) 10~15

Usable bag/width x length (mm) 190~275×200~380



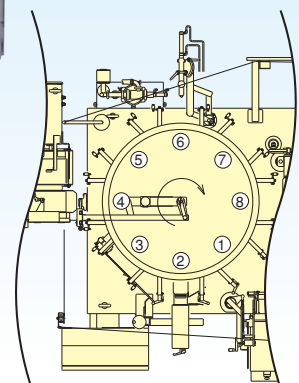
FHV-8-275

(The horizontally-setting type conveyor shown in the photograph is option.)

■ Filling-sealing process by standard machine(8-position)

①	②	③	④	⑤	⑥	⑦	⑧
Bag feeding	(Date)	Bag mouth opening	Insertion	(Liquid filling)	Bag transfer		

Each item in () shows an optional device.



FTG series



- A high replacement ratio is achieved by flushing a inert gas after vacuumizing inside the chamber.
- A series of the process such as upper lid film feeding (tray setting), vacuum, gas flushing, sealing and film cutting is performed automatically.
- Various types of machines are available for different tray sizes, production capacities, date coders, tray feeders and product fillers.

※The vacuum pump should be placed separately. (FTG-125F·150F·200F) ※Air source must be provided separately.

Tray vacuum gas packaging machine

FTG-200M

Capacity (shot/min.)

1~2

Usable tray/width x length (mm)

200 (max.) × 200 (max.)

FTG-300M

Capacity (shot/min.)

1~2

Usable tray/width x length (mm)

200 (max.) × 300 (max.)



※Vacuum pump is built-in.



FTG-200M

Tray vacuum gas packaging machine

FTG-200SF

Capacity (shot/min.)

3~4

Usable tray/width x length (mm)

225 (max.) × 200 (max.)

At 2-line spec



※Vacuum pump is built-in.

FTG-300SF

Capacity (shot/min.)

3~4

Usable tray/width x length (mm)

225 (max.) × 300 (max.)

At 2-line spec



FTG-300SF

Tray vacuum gas packaging machine

FTG-200F

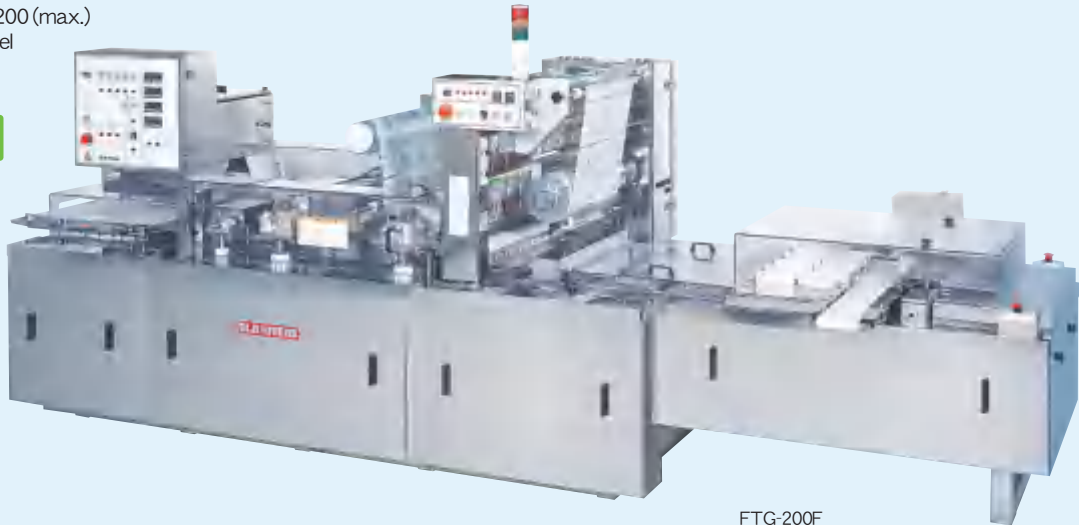
Capacity (shot/min.)

Only seal process : 14 (Max) · With gas flushing : 8 (Max)

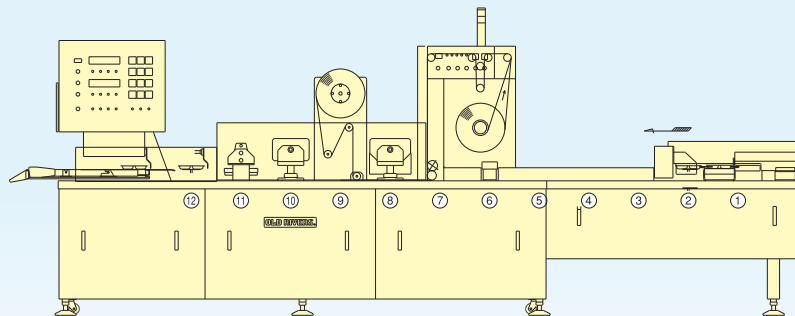
Usable tray/width x length (mm)

115 (max.) × 200 (max.)

For 4-line model



FTG-200F



■ FTG-200F Standard M/C packaging process

12	11	10	9	8	7	6	5 4	3~1
Discharge	Cooling, Cut (Perforations)	Second seal	Film winding	Vacuum/ Gas, First seal, Cutting	Film feeding (date)	Tray detecting	Product feeding, Tray frame change (Liquid filling)	Product feeding

Each item in () shows an optional device.

Filling-sealing machine

Select an optimum machine type according to the products, packaging sizes, layout and volume of production from the better-equipped lineup.

FF series



Features various packaging forms automatically by competed standard performance and variously-optional components.

- The width of all grippers can be adjusted at once by motor drive and it saves the time of bag changeover.
- Since this machine is equipped with bag recycle mechanism as standard, empty bag loss is reduced.
- The auto weighing machine and feeding device can be interlocked.
- Timing can be adjusted with an electronic cam.
- The central lubrication feature is applied for the parts inside the machine frame. (lubricated some parts from outside)
- If a heater element is burned out, an alarm screen shows and the machine stops.

※ The vacuum pump for bag feeding is provided as standard.
 ※ Air source must be provided separately.



FF-220NIII

(The photograph shows the machine with optional spec.)

Automatic filling-sealing machine



FF-220NIII/FF-220NIII-L

Capacity (bag/min.) 15~50
 Usable bag/width x length (mm) 80~240 x 100~350



FF-220NII L

Capacity (bag/min.) 15~40
 Usable bag/width x length (mm) 80~230 x 100~450



Automatic filling-sealing machine (with P-clip/tape tying device)

FF-220NIII-L-PC

Capacity (bag/min.) with clip : 15~35
 without clip : 15~45
 Usable bag/width x length (mm)
 80~230* x 100~350

FF-220NIII L-PC

Capacity (bag/min.) with clip : 15~35
 without clip : 15~40
 Usable bag/width x length (mm)
 80~230* x 100~450

FF-220NIII-PC

Capacity (bag/min.) with clip : 15~35
 without clip : 15~45
 Usable bag/width x length (mm)
 80~230* x 100~350



(※It may be restricted by materials, etc.)

FF-220NIII-T

Capacity with tape tying : 15~35
 (bag/min.) without tape tying : 15~45
 Usable bag/width x length (mm)
 80~230* x 100~350

FF-220NIII-VT

Capacity with tape tying : 15~30
 (bag/min.) without tape tying : 15~40
 Usable bag/width x length (mm)
 80~230* x 100~300



FF-220NIII-PC

(The photograph shows the machine with optional spec.)

Automatic filling-sealing machine with bag made by roll tube

FF-220NII RT

Capacity (bag/min.) 15~45
 Usable bag/width x length (mm)
 100~230 x 130~350*
 (made from rolled tube film)



(※It may be restricted by materials, etc.)



FF-220NII RT

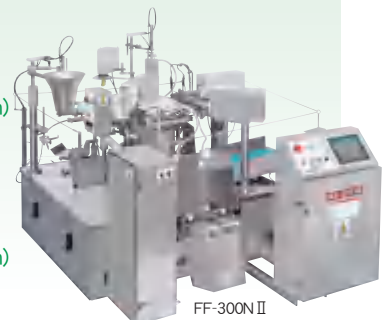
Automatic filling-sealing machine

FF-300NII

Capacity (bag/min.)
 10~40
 Usable bag/width x length (mm)
 150~300 x 150~450

FF-300NII L

Capacity (bag/min.)
 10~30
 Usable bag/width x length (mm)
 150~300 x 150~500



FF-300NII

Vacuum packaging machine

Filling-sealing machine

Bag-filling machine/ forming machine

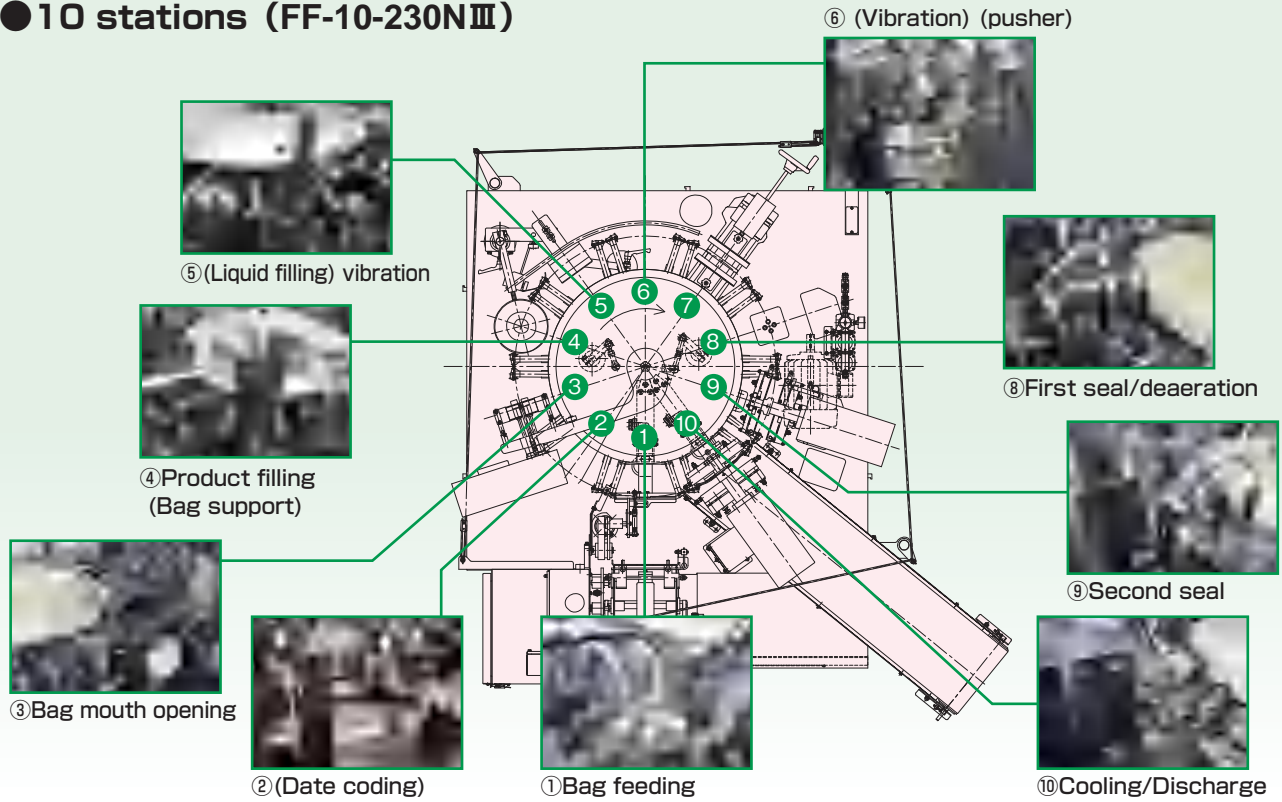
Filling device/ feeding device

Other related equipment

Index

Filling-sealing process by standard machine

● 10 stations (FF-10-230NⅢ)



①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩
Bag feeding	(Date coding)	Bag mouth opening	Product filling (Bag support)	(Liquid filling) vibration	(Vibration) (Pusher)	(Spot seal) (Deaeration)	First seal deaeration	Second seal	Cooling/Discharge

Each item in () shows an optional device.

Automatic filling-sealing machine

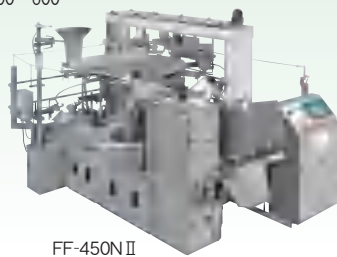
FF-450NⅡ

Capacity (bag/min.)

5~20

Usable bag/width x length (mm)

250~450×300~600



FF-450NⅡ

Automatic filling-sealing machine

FF-160WN

Capacity (bag/min.)

30~100

Usable bag/width x length (mm)

80~160×100~250

FF-200WN

Capacity (bag/min.)

20~60

Usable bag/width x length (mm)

80~200×100~320

FF-160WN-L

Capacity (bag/min.)

30~100

Usable bag/width x length (mm)

80~160×100~250

FF-12-150WN-L

Capacity (bag/min.)

30~110

Usable bag/width x length (mm)

80~150×130~250



FF-200WN

(The photograph shows the machine with optional spec.)

Automatic filling-sealing machine

FF-10-230NⅢ

Capacity (bag/min.)

10~60

Usable bag/width x length (mm)

80~230×100~300

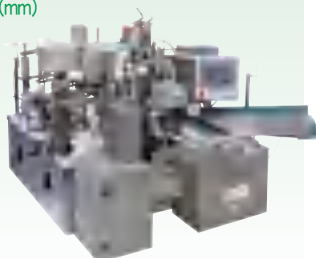
FF-10-230NⅢ-L

Capacity (bag/min.)

10~60

Usable bag/width x length (mm)

80~230×100~300



FF-10-230NⅢ

(The photograph shows the machine with optional spec.)

Automatic filling-sealing machine for gusset bag

FF-10-230GU

Capacity (bag/min.)

Flat bag : 10~45

Gusset bag : 10~35

Usable bag/width x length (mm)

80~230×150~380 Flat bag

80~180×150~350 Gusset bag



FF-10-230GU

Vacuum packaging machine

Filling-sealing machine

Bag-forming machine/ forming machine

Filling device/ feeding device

Other related equipment

Index

Filling-sealing machine



FFD series

- This series of machines adopts both functions for flat bag and standing bag with zipper (option), and it is a compact type, thus fitting on the line in existence.(FFD-230)
 - It features polyethylene packaging including laminate materials suitably, thereby resulting in continuous production. (FFD-380A/380BI)
- *The vacuum pump for bag feeding is provided as standard. *Air source must be provided separately.

Automatic filling-sealing machine

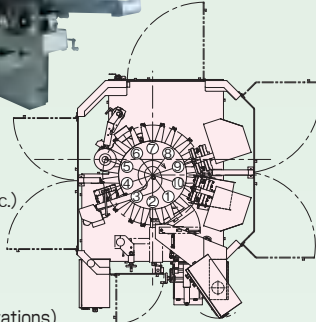
FFD-230

Capacity (bag/min.)
Flat bag · Standing bag
with zipper : 20~65
Usable bag/width x length (mm)
100~230 x 130~380
Flat bag



FFD-230

(The photograph shows the machine with optional spec.)



FFD-230

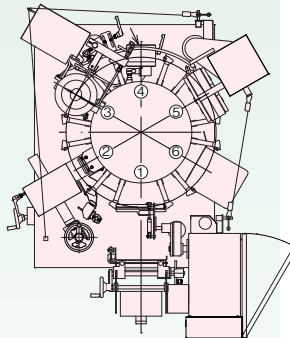
Standard filling-sealing machine process (10 stations)

Bag style	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩
Flat bag	Bag (Date coding)	(Date coding)	Bag mouth opening	Product filling	Vibration	(Vibration)	(Deaeration)	Deaeration/seal/cooling	Cooling/Discharge	
Standing bag with zipper	feeding	(Zipper mouth opening)	check	(Bag bottom opening)	(Bag support)		(First seal)	(Zipper closing)	(Date coding on seal area)	

Each number in () shows an optional mechanism.

FFD-6-230N

Capacity (bag/min.)
10~30
Usable bag/width x length (mm)
80~230 x 100~350



FFD-6-230N

Standard filling-sealing machine process (6 stations)

①	②	③	④	⑤	⑥
Bag feeding	(Date coding)	Bag mouth opening	Vibration	Seal	Discharge
		Product filling		Bar type deaeration	(Cooling)
		(Vibration)			

Each number in () shows an optional mechanism.

Large bag-making packaging machine

FFD-380A

Capacity (bag/min.)
10~25 (in 5kg packaging)
Usable bag/width x length (mm)
190~380 x 280~600
(made from rolled tube film)

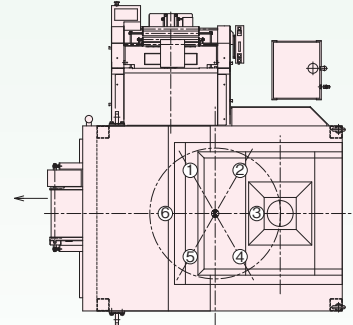


FFD-380BI

Capacity (bag/min.)
10~16 (in 5kg packaging)
Usable bag/width x length (mm)
200~380 x 280~600
(made from rolled tube film)



FFD-380A



FFD-380A Standard filling-sealing machine process (6 stations)

①	②	③	④	⑤	⑥
Bag clamp	Bag mouth opening	Product filling	Nozzle vacuum	Seal	Discharge
		(gas flushing)	(Spot seal)		Cooling
					Punching

Each number in () shows an optional mechanism.

FHF series



- Products can be packaged in order by being inserted horizontally. ● The product which is hard to be inserted vertically can be handled by surrounding and pushing it by the tray.
- *The vacuum pump for bag feeding is provided as standard. *Air source must be provided separately.

Horizontal type filling-sealing machine

FHF-220

Capacity (bag/min.)
10~25
Usable tray/
width x length (mm)
140~220 x 200~300

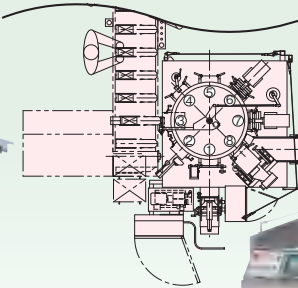
FHF-275

Capacity (bag/min.)
10~15
Usable tray/
width x length (mm)
200~275 x 200~380



FHF-220

(This machine has optional devices.
Transverse system inserting conveyor on the picture is optional.)



FHF-220

Standard filling-sealing machine process (8 stations)

①	②	③	④	⑤	⑥	⑦	⑧
Bag feeding	Bag mouth opening	Product insertion	Vibration		Seal	Cooling	Discharge (Date coding)

Each number in () shows an optional mechanism.

Transverse system gusset bag feeding sealing machine

FHF-10-150GU

Capacity (bag/min.)
10~25
Usable tray/
width x length (mm)
100~150 x 150~300 Gusset bag



FHF-10-150GU

Standard filling-sealing machine process (10 stations)

①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩
Bag feeding	(Date coding)	(Date coding/insertion)	Bag bottom opening	Empty	Product insertion	Empty	Folding	Seal	Cooling/discharge

Each number in () shows an optional mechanism.

Packaging machine/forming machine

Select an optimum machine type according to the products, packaging sizes, layout and volume of production from the better-equipped lineup.

FV series

● Can be used as a front-end of belt type vacuum packaging machine, etc. ● It can handle long, middle and small flat bags. ※The vacuum pump for bag feeding is provided as standard.

Automatic bag-filling machine

FV-8

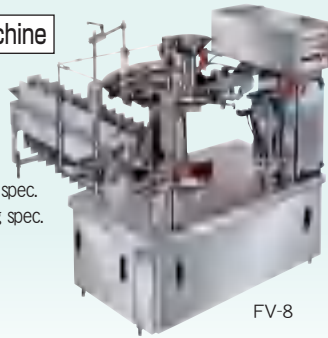
Capacity (bag/min.)

10~30

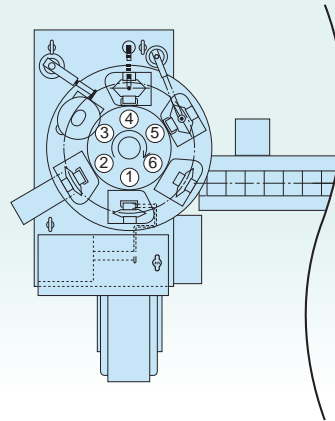
Usable bag/width x length (mm)

100~180×200~500 Small bag spec.

130~220×200~500 Middle bag spec.



FV-8



Automatic filling-sealing machine

FV-8S

Capacity (bag/min.)

10~20

Usable bag/width x length (mm)

100~180×200~340 Small bag spec.

130~220×200~340 Middle bag spec.



■ FV-8 Standard filling-sealing machine process(6 stations)

1	2	3	4	5	6
Bag feeding	Product filling/Bag support	(Bag support)	(Pusher)	Discharge	
	(Date coding)		(Liquid filling)	(Bag support)	

Each number in () shows an optional mechanism.

FSP series

● The machine with a conveyor can be incorporated into the packaging line. ● Since the shaping with the sufficient appearance into which contents go to all the corners in a bag can be performed, commodity value is enhanced. ● Better heat efficiency for sterilization and cooling is achieved, and the workability of the boxing of products in bag improves.

※The vacuum pump should be placed separately. ※Air source must be provided separately.

Vacuum shaping machine

FSP-300

Capacity (shot/min.) 4~6

Usable bag/width x length (mm) 300(max.)×380(max.)

FSP-400

Capacity (shot/min.) 4~6

Usable bag/width x length (mm) 400(max.)×700(max.)



FSP-400

Vacuum shaping machine

FSP-6-500

Capacity (bag/min.) 10~20

Usable bag/width x length (mm) 150~300×190~450



FSP-6-500

Vacuum shaping machine

FSP-10-180

Capacity (bag/min.) 20~40

Usable bag/width x length (mm) 180(max.)×300(max.)



FSP-10-180

● The machine makes filling, vacuum and sealing automatically. Uniform package shaping achieves.

※The vacuum pump should be placed separately. ※Air source must be provided separately.

Vertical filling vacuum shaping packaging machine

FSP-10-220V

Capacity (bag/min.)

10~25

Usable bag/width x length (mm)

100~220×150~300

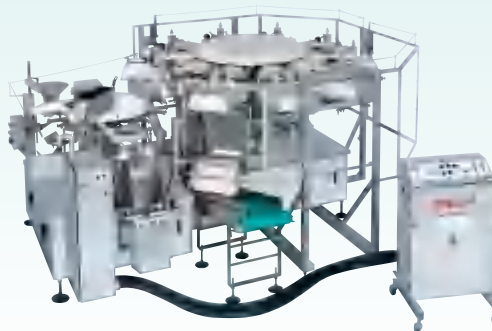
FSP-10-275NYV

Capacity (bag/min.)

10~20

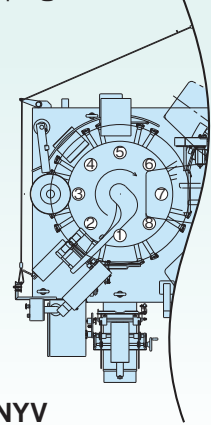
Usable bag/width x length (mm)

190~275×150~400



FSP-10-275NYV

(The photograph shows the machine with optional spec.)



■ FSP-10-275NYV

Standard filling-sealing machine process(6 stations)

①	②	③	④	⑤	⑥
Bag feeding	(Date coding)	Product filling	(Liquid filling)	Spot seal	Bag transfer

Each number in () shows an optional mechanism.

Vacuum packaging machine

Filling-sealing machine

Bag-filling machine/forming machine

Filling device/feeding device

Other related equipment

Index

Filling device/feeding device

Select an optimum device according to the products, packaging sizes, layout and volume of production from the better-equipped lineup.

FSS series

- Product amount is adjusted manually, and an air cylinder drives a piston.
- The device with casters can be easily moved.

※ Air source must be provided separately.



Small amount liquid filling device

FSS-50

Capacity (Shot/min.) 30 (max.)
 Filling amount (mℓ) 5~50
 Filling product temp (°C) 5~50
 Viscosity (as a guide, mPa·s) 1~3,000

FSS-90

Capacity (Shot/min.) 30 (max.)
 Filling amount (mℓ) 9~90
 Filling product temp (°C) 5~50
 Viscosity (as a guide, mPa·s) 1~3,000



FSS-50

FLP II series

- Product amount is adjusted manually, and a geared motor drives a piston.
- The device with casters can be easily moved.

※ Air source must be provided separately.

Liquid filling device



FLP II-60

Capacity (Shot/min.) 40 (max.)
 Filling amount (mℓ) 6~60
 Filling product temp (°C) 5~50
 Viscosity (as a guide, mPa·s) 1~10,000

FLP II-140

Capacity (Shot/min.) 40 (max.)
 Filling amount (mℓ) 14~140
 Filling product temp (°C) 5~50
 Viscosity (as a guide, mPa·s) 1~10,000

FLP II-250

Capacity (Shot/min.) 30 (max.)
 Filling amount (mℓ) 25~250
 Filling product temp (°C) 5~50
 Viscosity (as a guide, mPa·s) 1~10,000



FLP II-250

(The photograph shows the machine with optional spec.)

FLF series

- Product amount is adjusted by a digital function, and a servo motor drives a piston.
- The device with casters can be easily moved.

※ Air source must be provided separately.

Liquid filling device

FLF III-100

Capacity (Shot/min.) 45 (Max)
 Filling amount (mℓ) 20~100
 Filling product temp (°C) 5~80
 Viscosity (as a guide, mPa·s) 1~3,000

FLF III-700

Capacity (Shot/min.) 20 (Max)
 Filling amount (mℓ) 140~700
 Filling product temp (°C) 5~80
 Viscosity (as a guide, mPa·s) 1~3,000

FLF III-140

Capacity (Shot/min.) 45 (Max)
 Filling amount (mℓ) 28~140
 Filling product temp (°C) 5~80
 Viscosity (as a guide, mPa·s) 1~3,000

FLF III-1000

Capacity (Shot/min.) 20 (Max)
 Filling amount (mℓ) 200~1,000
 Filling product temp (°C) 5~80
 Viscosity (as a guide, mPa·s) 1~3,000

FLF II-500

Capacity (Shot/min.) 30 (Max)
 Filling amount (mℓ) 70~500
 Filling product temp (°C) 5~50
 Viscosity (as a guide, mPa·s) 1~3,000

FLF III-350

Capacity (Shot/min.) 30 (Max)
 Filling amount (mℓ) 70~350
 Filling product temp (°C) 5~80
 Viscosity (as a guide, mPa·s) 1~3,000

FLF III-2000

Capacity (Shot/min.) 15 (Max)
 Filling amount (mℓ) 400~2,000
 Filling product temp (°C) 5~80
 Viscosity (as a guide, mPa·s) 1~3,000

FLF II-400W

Capacity (Shot/min.) 45 (Max)
 Filling amount (mℓ) 60~400
 Filling product temp (°C) 5~50
 Viscosity (as a guide, mPa·s) 1~3,000



FLF III-700

FVL series

Middle viscosity liquid filling device

FVL-300

Capacity [Max. discharge volume] (mℓ / sec.) 300
 Filling product temp (°C) 5~90
 Viscosity (as a guide, mPa·s) 1~100,000



- Product amount is adjusted by a digital function, and a motor with clutch/brake drives a pump.
- The device with casters can be easily moved.



FVL-300

FMB シリーズ

● The servo motor drives a piston, thus resulting in a high capacity and accuracy, and also, the control function to correct the variation of a filling amount is provided. ● The touch panel is equipped and the filling data of each item can be preset. ● In order to reduce the damage to a solid, the bore of a product passage port is set $\phi 75(3S)$.

※ Air source must be provided separately.

High viscosity liquid filling device

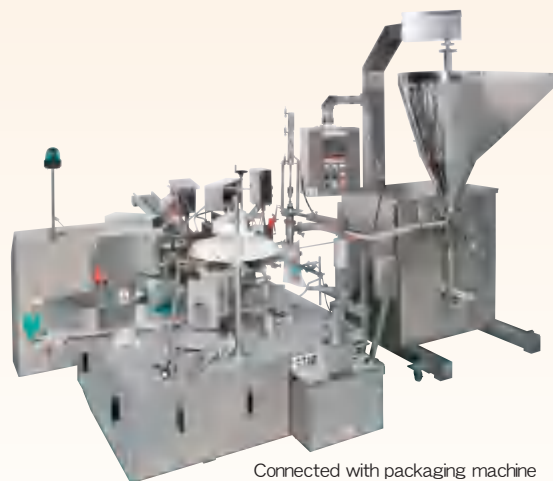
FMB-2000-1H

Capacity (Shot/min.) 15~30
 Filling amount (mℓ) 2,500 (max.)
 Filling product temp(°C) 5~60
 Viscosity (as a guide, mPa·s) 1~100,000



FMB-2000-1H

(The photograph shows the device with optional spec.)



Connected with packaging machine
(FF-220N + FMB-2000-1H)

FLM シリーズ

● An auger type filling machine is installed, and the nozzle is elevated for the bag. ● The powder filling system resulting in high speed and accuracy by connecting the packaging machine can also be offered. ● The device with casters can be easily moved.

※ Air source must be provided separately.

Auger elevating device

FLM-350

Capacity (cycle/min.) 30 (max.)
 Stroke : 350 (max.)



FLM-350

(Auger filler as shown in the above photograph is an option.)



Connected with packaging machine
(FF-300NII + FLM-350)

V series

- The structure is simple and product amount adjustment and product changeover can be done in a short time.

Volumetrical filling device

V-4

Capacity (shot/min.) 15~45

Filling amount (mℓ)※

Inner diameter of cylinder φ20 : 10~12

Inner diameter of cylinder φ30 : 25~35

Inner diameter of cylinder φ35 : 35~55

Inner diameter of cylinder φ48 : 70~115

Inner diameter of cylinder φ60 : 165~220

Inner diameter of cylinder φ72 : 245~325

※filling amount can be customized.



V-4

FMV series

- Realized high capacity and accuracy by the alternately reciprocating motion of the double measuring cups.
- Capable of the connection to automatic packing machine, dismantlement and washing easily at wetted part without tool.

Volumetrical filling device

FMV-500

Capacity (shot/min.) 45 (Max)

Filling amount (mℓ)※

50~500 (Measuring cup exchange)

※filling amount can be customized.



FMV-500

TC II series

- This series can be interlocked with the automatic packaging machine and available for wide range of products in small bag through large bag for industrial ones.
 - Besides standard type, offering L-type, which is a low-floor model and easy to be connected with the weigher, LH-type, which has a high-position relay funnel to attach the metal detect ring and FA-type, on which a flat conveyor is equipped and the product can be weighed with a detachable cup.
 - The horizontal part of each type can be changed lengthwise by layout and working conditions.
 - The conveyor with casters can be easily moved.
- ※Air source must be provided separately.(TC II-18FA)

Cup filling conveyor

TC II-18

Capacity (shot/min.) 45 (max.)※

TC II-22

Capacity (shot/min.) 45 (max.)※

TC II-26

Capacity (shot/min.) 45 (max.)※

TC II-30

Capacity (shot/min.) 45 (max.)※

TC II-34

Capacity (shot/min.) 45 (max.)※

TC II-46

Capacity (shot/min.) 45 (max.)※

TC II-54

Capacity (shot/min.) 45 (max.)※



(※By single dump with medium and large cups. [Max.35-shot/min with extra large and super extra large cups])



TC II-22

Cup filling conveyor (low-floor type)

TC II-20L

Capacity (shot/min.) 45 (max.)※

TC II-24L

Capacity (shot/min.) 45 (max.)※

TC II-28L

Capacity (shot/min.) 45 (max.)※

TC II-32L

Capacity (shot/min.) 45 (max.)※

TC II-36L

Capacity (shot/min.) 45 (max.)※

TC II-40L

Capacity (shot/min.) 45 (max.)※

(※By single dump with medium and large cups. [Max.35-shot/min with extra large and super extra large cups])

Detachable cup filling conveyor

TC II-18FA

Capacity (shot/min.)

30 (max)

※By single dump



TC II-18FA

Cup filling conveyor (for the connection with metal detector)

TC II-23LH

Capacity (shot/min.)

45 (max)※



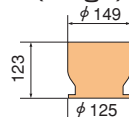
(※By single dump with medium and large cups. [Max.35-shot/min with extra large and super extra large cups])



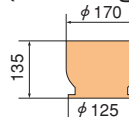
TC II-23LH

Cup variation

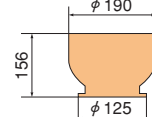
- Volume 1400mℓ (Large)



- Volume 2000mℓ (Extra large)



- Volume 3000mℓ (Super extra large)



TCⅢ series

● This series can be interlocked with the higher speed automatic packaging machine and available for wide range of products in small bag through large bag for industrial ones. ● The flat part can be changed lengthwise by layout and working conditions. ● The device with casters can be easily moved.

Cup filling conveyor

TCⅢ-27

Capacity (shot/min.) 60 (max.) ※By single dump

TCⅢ-32

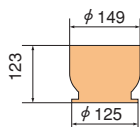
Capacity (shot/min.) 60 (max.) ※By single dump



TCⅢ-32



● Volume 1400m l (Large)



FC series

● This series can be interlocked with the automatic packaging machine and available for wide range of products in small bag through large bag for industrial ones. ● The cup feeding conveyor can be customized according to various layout and working conditions. ● The device with casters can be easily moved.

※ Air source must be provided separately.

Cup filler

FC-90NⅡ(L)

Capacity (shot/min.) 40 (max)

FC-90WNⅡ(L) 2倍

Capacity (shot/min.) 40 (max)

FC-110NⅡ(L)

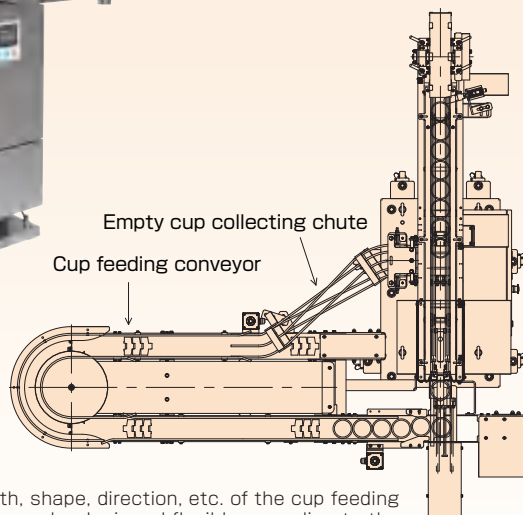
Capacity (shot/min.) 30 (max)

FC-110WNⅡ(L) 2倍

Capacity (shot/min.) 40 (max)



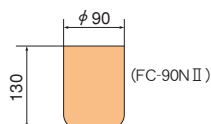
FC-90NⅡ
(The photograph shows the filler with optional spec.)



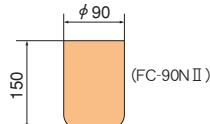
The length, shape, direction, etc. of the cup feeding conveyor can be designed flexibly according to the line layout and the connection with weighing machine.



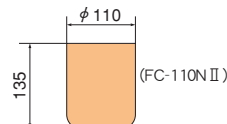
● Volume 573m l



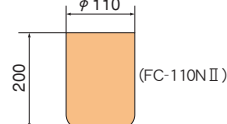
● Volume 668m l



● Volume 923m l



● Volume 1403m l



Other relevant apparatus

Vacuum packaging machine

Filling-sealing machine

Bag-filling machine/ forming machine

Filling device/ feeding device

Other related equipment

Index

FRR series

- The water drops adhered to the bag surface after thermal sterilization and cooling are absorbed and removed.
- High efficiency sponge rollers are used and they suck up unwanted moisture quickly and hold firmly.
- The device with casters can be easily moved.

Squeeze roller conveyor

FRR-500II (with upper, lower, upper/lower conveyor)

Conveyer speed(m/min.)

Two-speed settings: 50Hz=5.5, 9.7

Two-speed settings: 60Hz=5.6, 9.9

Belt width(mm) : 520



FRR-500(with upper/lower conveyor)



squeeze roller with upper conveyor



squeeze roller with lower conveyor

Vacuum tank series

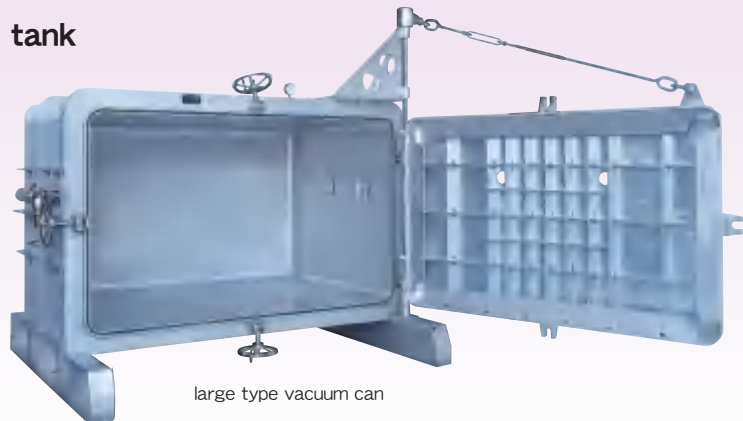
- The contained gas in high viscosity products and pickled products is removed by vacuum condition in the tank.
- Useful to the reduction of post-process time and increase in product quality.
- ※The vacuum pump must be installed separately.

Vacuum tank

Vacuum tank/large-size vacuum tank

Capacity (cycle/hour)

7.5~15



large type vacuum can

Pouch flattening conveyor series

- Since the shaping with the sufficient appearance can be performed, commodity value increases.
- Better heat efficiency for sterilization and cooling is achieved, and the workability of the boxing of products in bag improves.
- This conveyor can be installed to the packaging line.
- ※Since various types can be offered, contact our sales staff for details.

Pouch flattening conveyor

Conveyer speed(m/min.)

10~30

Belt width(mm) : 400

Shaping thickness adjusting range: 10~60



Pouch flattening conveyor

FBM series

● Merits of in-line bag-making such as the stabilization of packaging, the laborsaving of bag supply and the reduction of the packaging material stock space and the packaging delivery time are educed at a maximum. ● Regardless of flat bag and standing bag, making reclosable bag (bag with zipper), which increases continuously every year as a reclosing method after opening bag, is

Bag-making machine



FBM-300STE

Capacity (bag/min.)

10~45

Usable bag/width x length (mm)

100~220×100~300

(made from rolled film)

1. Multiuse fully-automated consistent bag-making system

- Interlocking-running with post-process packaging machine
- Used for bag stock production by independent running of bag-making machine

2. Even if bag size is changed, the standard of bag center/top is stable.

3. Various types of the post-process packaging machines can be selected.

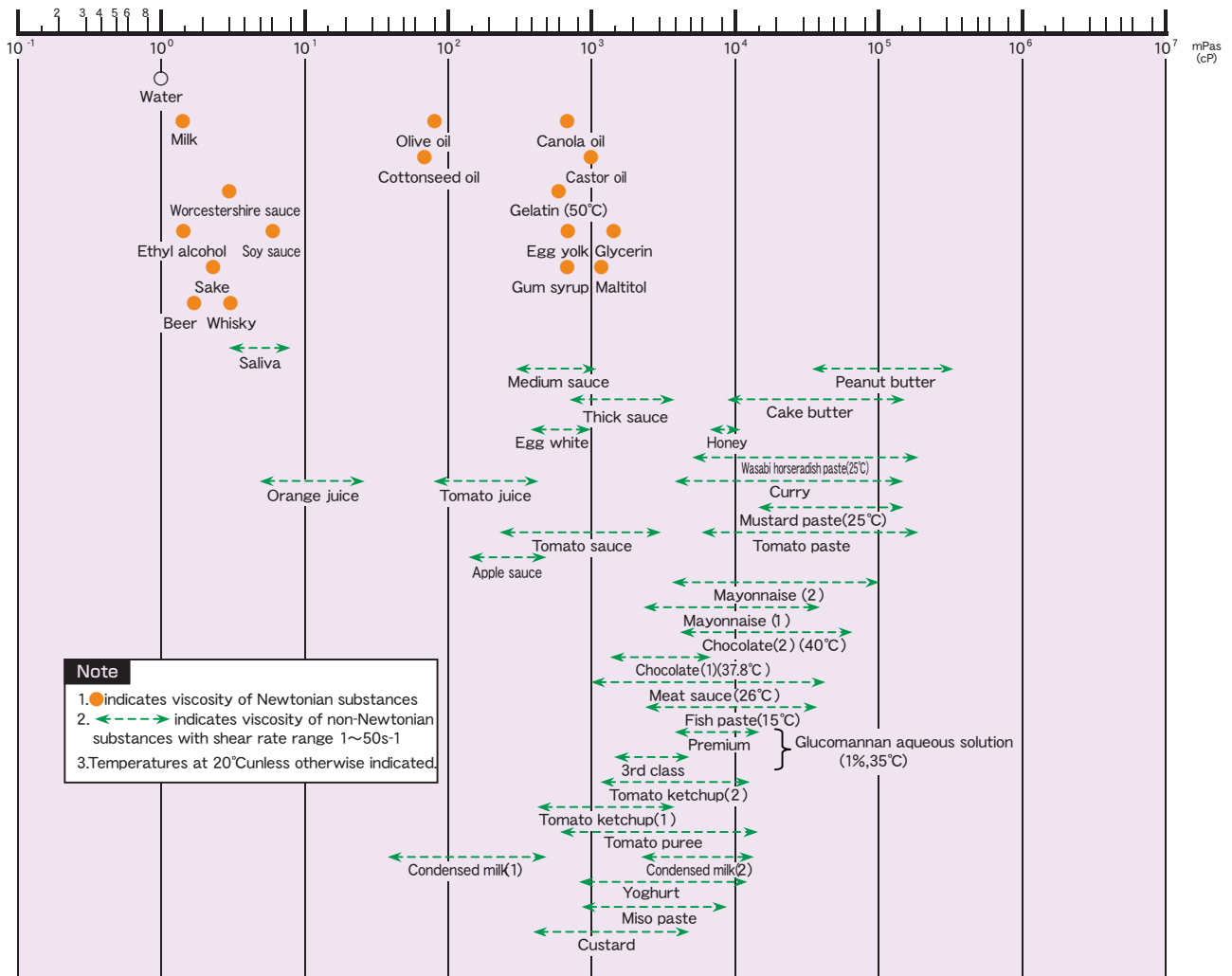
e.g.) Filling-sealing machine, vertical vacuum (gas) packaging machine and horizontal filling-sealing machine



FBM-300STE + FVV10×10-220GE
(Photo shows the Europe spec. machine.)

Viscosity Data Chart

*Viscosity [1cP [centipoises] = 1mPa/s [millimeter-pascal/sec.]



Viscosity Data Chart

●Model index [per product/capacity]

	Model name	Series	Model	Product						Capacity bag (shot) /min	page
				Sea Food	Agricultural foods	Livestock	Sweets	Powder	Industrial products		
Vacuum packaging machine	Compact vacuum (gas) packaging machine	FVC II	FVC II	●	●	●			●	(2~4)	3
			FVC II-G		●		●		●	(1~2)	
Filling-sealing machine	Auto vacuum packaging machine	FVS II	FVS II-400 II	●	●	●	●		●	(1.5~2.5)	4
			FVS II-400×150	●	●	●	●		●	(1~2)	
			FVS II-500 II	●	●	●	●		●	(1~2)	
			FVS II-500×150	●	●	●	●		●	(1~1.5)	
			FVS II-500L	●	●	●	●		●	(1~2)	
Auto vacuum gas packaging machine	FVS II-G	FVS II-400 II G	●	●	●	●		●	(1~2)	4	
		FVS II-400×150G	●	●	●	●		●	(1~1.5)		
		FVS II-500 II G	●	●	●	●		●	(1~1.5)		
		FVS II-500×150G	●	●	●	●		●	(1~1.5)		
Auto vacuum (gas) packaging machine	FVS-7 FVS-NV	FVS-7-400 II	●	●	●	●		●	(2~3)	5	
		FVS-500NV	●	●	●	●		●	(2~3) Nozzledaeration		
		FVS-500NV-G	●	●	●	●		●	(1~2)		
	FVS-3	FVS-3	●		●			●	(1~2)		
		FVS-3S II	●	●	●			●	(1~2)		
		FVS-3S II G	●	●	●			●	(1)		
	FVH	FVH-S1 (L)	●						(2~3)		
FVH-S1W		●						(1~2)			
HI-Man (vacuum packaging machine)	HI	HI-750	●		●			●	1.5~2.5	6	
		HI-750 II	●		●			●	1.5~2.5		
		HI-750IS	●		●			●	1.5~2.5		
Belt type vacuum packaging machine	FVB	FVB	FVB-U9 II-400	●	●	●	●		●	(2~4)	6
			FVB-U9 II-400×110	●	●	●	●		●	(2~4)	
			FVB-U9 II-500	●	●	●	●		●	(2~4)	
			FVB-U9 II-500×110	●	●	●	●		●	(2~4)	
			FVB-U9-500W	●	●	●	●		●	(1~2)	
			FVB-UX400	●	●	●	●		●	(2~4)	
			FVB-UX-500	●	●	●	●		●	(2~4)	
			FVB-U4-370 II G	●	●	●	●		●	(1.5~2)	
			FVB-U4-430 II G	●	●	●	●		●	(1.5~2)	
		FVB-U5-500 II G	●	●	●	●		●	(1~3)		
		FVB-UC	FVB-UC-400	●	●	●	●		●	(1~3)	
			FVB-UC-400×110	●	●	●	●		●	(1~3)	
			Vacuum (gas) packaging machine for large products	FVM	FVM-WM			●			
FVM-WMG						●				(1~2)	
FVM-4W III (-L/-R)					●				(1~2)		
Vertical chamber vacuum packaging machine	FVF	FVF-275		●				●	6~10		
		FVF-450 (H)		●					2~5		
		FVF-8-260N		●	●				15~22		
Rotary chamber vacuum packaging machine	FVR-8600	FVR-8-175N	●	●	●			●	23~70	8	
		FVR-8-175NW1	●	●	●			●	20~60		
		FVR-8-260N	●	●	●			●	16~50		
		FVR-8-260N-I	●	●	●			●	16~50		
		8600-14D	●		●				20~50		
		8600-14ELD	●		●				12~35		
		8600-14ELJ	●		●				12~40		
		8600B-18D	●		●				10~30		
		8610T-14	●		●				10~20		
Vertical chamber vacuum packaging machine	FVV	FVV-10-220N III	●	●	●				10~45	9	
		FVV-8-180N	●	●					10~30		
		FVV-8-250NB-L			●				10~45		
		FVV-8-275N	●	●	●		●		10~35		
		FVV-12-150N	●	●	●				10~60		
		FVV-10×10-220N	●	●	●				10~45		
	FVV (Gas/hot)	FVV-10×10-220GE	●	●	●	●			10~20	10	
FVV-10×12-160G		●	●	●	●			10~35			
FVV-8×10-160WN			●	●	●			30~90			
Horizontal chamber vacuum packaging machine	FHV	FHV-8-220-L		●	●				10~30	11	
		FHV-8-275		●	●				10~15		
Tray vacuum gas packaging machine	FTG	FTG-200M		●	●				(1~2)	12	
		FTG-300M		●	●				(1~2)		
		FTG-200SF		●	●				(3~4)		
		FTG-300SF		●	●				(3~4)		
		FTG-200F		●	●				(8~14)		

	Model name	Series	Model	Product						Capacity	page		
				Sea Food	Agricultural foods	Livestock	Sweets	Powder	Industrial products	bag (shot) /min			
Filling-sealing machine	Automatic filling-sealing machine	FF	FF-220N III、III-L	●	●	●	●	●		15~50	13		
			FF-220N II L	●	●	●	●	●		15~40			
			FF-220N III-PC	●	●		●	●		15~45			
			FF-220N III L-PC	●	●		●	●		15~40			
			FF-220N III-T	●	●		●	●		15~45			
			FF-220N III-VT	●	●		●	●		15~45			
			FF-220N II RT	●	●		●	●	●	15~45			
			FF-300N II	●	●	●	●	●	●	10~40			
			FF-300N II L	●	●	●	●	●	●	10~30			
			FF-450N II	●	●	●	●	●		5~20			
			FF-160WN	●	●		●	●	●	30~100			
			FF-200WN	●	●		●	●	●	20~60			
	FF-12-150WN-L	●	●		●	●	●	30~110					
	FF-10-230N III	●	●	●	●	●	●	10~60					
	FF-10-230GU		●		●	●		10~45					
Large bag-making packaging machine	FFD	FFD-230				●	●		20~65	14			
		FFD-6-230N		●	●	●	●		10~30				
		FFD-380A				●	●		10~25				
Horizontal type filling-sealing machine	FHF	FHF-220	●	●	●	●			10~25	15			
		FHF-275	●	●	●	●			10~15				
			FHF-10-150GU	●	●		●		10~25				
Bag-filling machine/forming machine	model name	Series	model	Product						Capacity	page		
				Sea Food	Agricultural foods	Livestock	Sweets	Powder	Industrial products	bag (shot) /min			
	Automatic filling-sealing machine	FV	FV-8	●	●	●					10~30	16	
			FV-8S				●	●			10~20		
	Vacuum shaping machine	FSP	FSP-300	●	●	●		●	●		(4~6)		
			FSP-400	●	●	●		●	●		(4~6)		
			FSP-6-500	●	●	●		●	●		10~20		
	Vertical filling vacuum shaping packaging machine		FSP-10-180	●	●	●		●	●		20~40		
			FSP-10-220V	●	●	●			●		10~25		
			FSP-10-275NYV	●	●	●			●		10~20		
Filling device/feeding device	model name	Series	model	Product						Capacity	page		
				Sea Food	Agricultural foods	Livestock	Sweets	Powder	Industrial products	bag (shot) /min			
	Small amount liquid filling device	FSS	FSS-50	●	●	●					(30 (max.))	17	
			FSS-90	●	●	●					(30 (max.))		
	Liquid filling device	FLP II	FLPII-60	●	●	●					(40 (max.))		
			FLPII-140	●	●	●					(40 (max.))		
			FLPII-250	●	●	●					(30 (max.))		
		FLF	FLFIII-100	●	●	●							(45 (max.))
			FLFIII-140	●	●	●							(45 (max.))
			FLFIII-350	●	●	●							(30 (max.))
			FLFIII-700	●	●	●							(20 (max.))
			FLFIII-1000	●	●	●						(20 (max.))	
			FLFIII-2000	●	●	●						(15 (max.))	
	FLFII-500	●	●	●						(30 (max.))			
	FLFII-400W	●	●	●						(45 (max.))			
	Middle viscosity liquid filling device	FVL	FVL-300	●	●	●					Max. discharge : 300m ³ /sec		
	High viscosity liquid filling device	FMB	FMB-2000-1H	●	●	●					(15~30)		
	Auger elevating device	FLM	FLM-350					●			30trip/min (max.)		
	Volumetrical filling device	V	V-4		●			●	●		(15~45)		
FMV		FMV-500		●						(45 (max.))			
Cup filling conveyor	TC II	TCII (Standard type)		●	●						(45 (max.))		
		TCII-L (Low-floor type)		●	●						(45 (max.))		
		TCII-23LH		●	●						(45 (max.))		
		TCII-18FA		●	●						(30 (max.))		
TC III	TCIII-27		●	●						(60 (max.))			
	TCIII-32		●	●						(60 (max.))			
Cup filler	FC	FC-90NII (L)		●	●						(45 (max.))		
		FC-90WNII (L)		●	●								
		FC-110NII (L)		●	●						(40 (max.))		
		FC-110WNII (L)		●	●						(40 (max.))		
Other relevant apparatus	model name	Series	model	Product						Capacity	page		
				Sea Food	Agricultural foods	Livestock	Sweets	Powder	Industrial products	bag (shot) /min			
	Squeeze roller conveyor	FRR	FRR-500II	●	●	●					Conveyer speed : 5.5~9.9m/min.		
	Vacuum tank	Vacuum can	Large type vacuum can		●						7.5~15trip/time		
	Pouch flattening conveyor	Pouch flattening conveyor	Pouch flattening conveyor	●	●	●					Conveyer speed : 10~30m/min.		
Bag-making machine	FBM	FBM-300STE	●	●	●	●	●			10~45			

Vacuum packaging machine

Filling-sealing machine

Packaging machine/forming machine

Filling machine/distributing machine

Other relevant apparatus

Model Index [per product/capacity]

●Model index [per size (amount)/ function]

	Model name	Series	Model	Size		Function						page
				Bag width [Seal length] (mm)	bag length [Seal bottom] (mm)	microcomputer	touch panel	Gas chargeable	Deep type vacuum box	Capable of hot-filling	Horizontal inserting	
Vacuum packaging machine	Compact vacuum (gas) packaging machine	FVC II	FVC II	[518]	[400]							3
			FVC II-G	[518]	[400]			●				
Filling-sealing machine	Auto vacuum packaging machine	FVS II	FVS II-400 II	[890]	[343]				●			4
			FVS II-400×150	[890]	[347]				●			
			FVS II-500 II	[890]	[444]				●			
			FVS II-500×150	[890]	[447]				●			
Vacuum packaging machine	Auto vacuum gas packaging machine	FVS II-G	FVS II-400 II G	[890]	[345]			●				4
			FVS II-400×150G	[890]	[347]			●	●			
			FVS II-500 II G	[890]	[445]			●				
			FVS II-500×150G	[890]	[447]			●	●			
Vacuum packaging machine	Auto vacuum (gas) packaging machine	FVS-7 FVS-NV	FVS-7-400 II	[890]	[340]	●	●					5
			FVS-500NV	[890]	[440]	●	●					
			FVS-500NV-G	[890]	[440]	●	●	●				
		FVS-3	FVS-3	[main890 sub640]	[main630 sub1,120]				●			
			FVS-3S II	[main940 sub540 × 2parts]	[main640 sub1,050]				●			
			FVS-3S II G	[625]	[1,105]			●	●			
FVH	FVH-S1 (L)	1,100 × 2parts	660(seal to seal)									
	FVH-S1W	1,100 × 2parts	1,000(seal to seal)									
Vacuum packaging machine	HI-Man (vacuum packaging machine)	HI	HI-750	[700(Lower film)]	[490(Lower film)]							6
			HI-750 II	[700(Lower film)]	[490(Lower film)]							
			HI-750IS	[546(In bag using)]	[400(In bag using)]							
Vacuum packaging machine	Belt type vacuum packaging machine	FVB	FVB-U9 II-400	[1,090]	[345]	●	●					6
			FVB-U9 II-400×110	[1,090]	[345]	●	●		●			
			FVB-U9 II-500	[1,090]	[435]	●	●					
			FVB-U9 II-500×110	[1,090]	[435]	●	●		●			
			FVB-U9-500W	[1,090]	[200(seal to seal)]	●	●					
			FVB-UX400	[1,090]	[345]	●	●					
			FVB-UX-500	[1,090]	[435]	●	●					
			FVB-U4-370 II G	[890]	[300]				●			
		FVB-U4-430 II G	[890]	[360]				●				
		FVB-U5-500 II G	[1,090]	[440]				●				
		FVB-UC	FVB-UC-400	[890]	[345]	●	●					
FVB-UC-400×110	[890]		[345]	●	●		●					
Vacuum packaging machine	Vacuum (gas) packaging machine for large products	FVM	FVM-WM	[670 × 2parts]	[790(seal to seal)]				●	●		7
			FVM-WMG	[640 × 4parts]	[790(seal to seal)]			●	●	●		
			FVM-4W III (-L/-R)	[670 × 2parts]	[1,000(seal to seal)]				●			
Vacuum packaging machine	Vertical chamber vacuum packaging machine	FVF	FVF-275	170 ~ 275	200 ~ 380							8
			FVF-450 (H)	250 ~ 450	350 ~ 500	●	●			●		
			FVF-8-260N	200 ~ 250	280 ~ 380	●	●					
Vacuum packaging machine	Rotary chamber vacuum packaging machine	FVR · 8600	FVR-8-175N	[175]	[345]	●	●					8
			FVR-8-175NW1	[175 × 2parts]	[160 ~ 220(seal to seal)]	●	●					
			FVR-8-260N	[260]	[358]	●	●					
			FVR-8-260N- I	[260]	[358]	●	●					
			8600-14D	[360(max.)]	[470]				●			
			8600-14ELD	[360(max.)]	[670]				●			
			8600-14ELJ	[360(max.)]	[670]				●			
			8600B-18D	[460(max.)]	[670]				●			
8610T-14	[360(max.)]	[620]										
Vacuum packaging machine	Vertical chamber vacuum packaging machine	FVV	FVV-10-220N III	80 ~ 220	150 ~ 300	●	●					9
			FVV-8-180N	100 ~ 180	150 ~ 500	●	●					
			FVV-8-250NB-L	80 ~ 220	150 ~ 300	●	●					
			FVV-8-275N	160 ~ 275	150 ~ 380	●	●					
			FVV-12-150N	80 ~ 150	100 ~ 250	●	●					
			FVV-10X10-220N	80 ~ 220	150 ~ 300	●	●					
		FVV (Gas/hot)	FVV-10×10-220GE	160 ~ 220	150 ~ 300	●	●	●				
FVV-10×12-160G	100 ~ 160	150 ~ 250	●	●	●							
FVV-8×10-160WN	80 ~ 160	100 ~ 250	●	●								
Vacuum packaging machine	Horizontal chamber vacuum packaging machine	FHV	FHV-8-220-L	130 ~ 220	200 ~ 300	●	●				●	11
			FHV-8-275	190 ~ 275	200 ~ 380	●	●				●	
Vacuum packaging machine	Tray vacuum gas packaging machine	FTG	FTG-200M	200 (max.) (Tray)	200 (max.) (Tray)	●	●	●				12
			FTG-300M	200 (max.) (Tray)	300 (max.) (Tray)	●	●	●				
			FTG-200SF	225 (max.) (Tray)	200 (max.) (Tray)	●	●	●				
			FTG-300SF	225 (max.) (Tray)	300 (max.) (Tray)	●	●	●				
			FTG-200F	115 (max.) (Tray)	200 (max.) (Tray)	●	●	●				

	Model name	Series	Model	Size		Function						page
				Bag width [Seal length] (mm)	bag length [Seal bottom] (mm)	microcomputer	touch panel	Gas chargeable	Deep type vacuum box	Capable of hot-filling	Horizontal inserting	
Filling-sealing machine	Automatic filling-sealing machine	FF	FF-220N III、III-L	80 ~ 230	100 ~ 350	●	●	●				13
			FF-220N II L	80 ~ 230	100 ~ 450	●	●	●				
			FF-220N III-PC	80 ~ 230	100 ~ 350	●	●					
			FF-220N III L-PC	80 ~ 230	100 ~ 450	●	●					
			FF-220N III-T	80 ~ 230	100 ~ 350	●	●					
			FF-220N III-VT	100 ~ 230	130 ~ 300	●	●					
			FF-220N II RT	100 ~ 230	130 ~ 350	●	●					
			FF-300N II	150 ~ 300	150 ~ 450	●	●					
			FF-300N II L	150 ~ 300	150 ~ 500	●	●					
			FF-450N II	250 ~ 450	300 ~ 600	●	●					
			FF-160WN	80 ~ 160	100 ~ 250	●	●	●				
			FF-200WN	80 ~ 200	100 ~ 320	●	●					
	FF-12-150WN-L	80 ~ 150	130 ~ 250	●	●							
	FF-10-230N III	80 ~ 230	100 ~ 300	●	●	●						
	FF-10-230GU	80 ~ 230	150 ~ 380	●	●							
Large bag-making packaging machine	FFD	FFD-230	100 ~ 230	130 ~ 380	●	●					15	
		FFD-6-230N	80 ~ 230	100 ~ 350	●	●						
		FFD-380A	190 ~ 380	280 ~ 600	●	●						
Horizontal type filling-sealing machine	FHF	FHF-220	140 ~ 220	200 ~ 300	●	●				●	15	
		FHF-275	200 ~ 275	200 ~ 380	●	●				●		
		FHF-10-150GU	100 ~ 150	150 ~ 300	●	●				●		
Bag-filling machine/forming machine	Automatic filling-sealing machine	FV	FV-8	100 ~ 220	200 ~ 500						16	
			FV-8S	100 ~ 220	200 ~ 340	●						
	Vacuum shaping machine	FSP	FSP-300	300 (max.)	380 (max.)							
			FSP-400	400 (max.)	700 (max.)							
			FSP-6-500	150 ~ 300	190 ~ 450	●						
	Vertical filling vacuum shaping packaging machine	FSP	FSP-10-180	180 (max.)	300 (max.)	●						
FSP-10-220V			100 ~ 220	150 ~ 300	●							
FSP-10-275NYV	190 ~ 275	150 ~ 400	●									
Filling device/feeding device	Model name	Series	Model	Size (Amount)		Function						page
				Filling amount(mℓ)	Filling product temp.(°C)	microcomputer	touch panel	Gas chargeable	Deep type vacuum box	Capable of hot-filling	Horizontal inserting	
	Small amount liquid filling device	FSS	FSS-50	5 ~ 50	5 ~ 50							17
			FSS-90	9 ~ 90	5 ~ 50							
	Liquid filling device	FLP II	FLP II-60	6 ~ 60	5 ~ 50							
			FLP II-140	14 ~ 140	5 ~ 50							
			FLP II-250	25 ~ 250	5 ~ 50							
		FLF	FLF III-100	20 ~ 100	5 ~ 80							
			FLF III-140	28 ~ 140	5 ~ 80							
			FLF III-350	70 ~ 350	5 ~ 80							
			FLF III-700	140 ~ 700	5 ~ 80							
			FLF III-1000	200 ~ 1,000	5 ~ 80							
			FLF III-2000	400 ~ 2,000	5 ~ 80							
			FLF II-500	70 ~ 500	5 ~ 50	●	●					
	FLF II-400W	60 ~ 400	5 ~ 50	●	●							
	Middle viscosity liquid filling device	FVL	FVL-300		5 ~ 90							
	High viscosity liquid filling device	FMB	FMB-2000-1H	2,500 (max.)	5 ~ 60	●	●					
	Auger elevating device	FLM	FLM-350			●	●					
	Volumetrical filling device	FMV	V	V-4	10 ~ 325		●					
			FMV	FMV-500	50 ~ 500 (Measuring cup exchange)		●	●				
	Cup filling conveyor	TC II	TC II (Standard type)	3,000 (max.)								
TC II-L (Low-floor type)			3,000 (max.)									
TC II-23LH			3,000 (max.)									
TC II-18FA			3,000 (max.)									
TC III		TC III-27	1,400 (max.)									
TC III-32	1,400 (max.)											
Cup filler	FC	FC-90NII (L)	668 (max.)		●	●						
		FC-90WNII (L)	668 (max.)		●	●						
		FC-110NII (L)	1,403 (max.)		●	●						
		FC-110WNII (L)	1,403 (max.)		●	●						
Other relevant apparatus	Model name	Series	Model	Size (Amount)		Function						page
				Bag width [Seal length] (mm)	bag length [Seal bottom] (mm)	microcomputer	touch panel	Gas chargeable	Deep type vacuum box	Capable of hot-filling	Horizontal inserting	
	Squeeze roller conveyor	FRR	FRR-500II			●	●					
	Vacuum tank	Vacuum can	Large type vacuum can									
Pouch flattening conveyor	Pouch flattening conveyor	Pouch flattening conveyor										
Bag-making machine	FBM	FBM-300STE	100 ~ 220	100 ~ 300	●	●						

200-65, Obara, Nutanishi-Cho, Mihara-Shi, Hiroshima-Ken 729-0492 Japan
Tel.0848-86-5853 Fax.0848-86-6350
URL:<https://www.furukawa-mfg.co.jp/>

※Each machine type and the specification described in this catalog may be changed without a prior notice. ※In each photograph, its appearance may differ from an actual machine in some degree. ※For checking outside dimensions, see the newest outline drawings. ※Install individual machine after conferring with an account executive of our company. ※Operate the machine correctly, observing the contents of the instruction manual.