



## Vacuum and Pressure Products for Food Packaging





## Food Processing



### L-Series Liquid Ring



- Excellent resistance to corrosion
- No sediments
- High resistance to wear
- Increased water carryover available
- UL/CSA approved
- 50/60 Hz voltage range motors
- Can also be used as closed system or in pump set combinations

### V-Series Rotary Vane



- Small footprint
- Dry running or oil lubricated
- Low noise level
- Long up-times
- Can also be used in pump set combinations

### C-Series Claw



- Long up-times
- Maintenance friendly
- Dry running and contact free operation
- Targeted discharge of cooling air
- Process safe and resilient
- High efficiency

### S-Series Screw



- Dry running and contact free operation
- Long up-times
- High water vapor tolerance
- Short evacuation time due to high suction capacities
- Low maintenance costs

### ■ Vacuum filler

In a vacuum filling machine dough-shaped prepared foods such as meat, fish, cheese, bread, sausage etc. are separated into portions and packaged under vacuum. This improves homogeneity and avoids air inclusions. Extended shelf life and excellent color stability are further advantages.

### ■ Vacuum tumbler

In the vacuum tumbler, food cut into pieces such as meat, fish, salads, delicacies etc. is mixed with spices, worked and refined.

### ■ Vacuum cutter

The vacuum cutter is particularly suitable for the production of pâtés. Here again, the ingredients are mixed under vacuum in order to achieve a high degree of color stability and homogeneity.



**L-BL2 Compact**



**L-BV5**



**V-VC** (also available  
for oxygen applications)



**V-VTR**



**C-VLR  
ZEPHYR**



**S-VSI  
TWISTER**





## Vacuum Packaging



### F-Series Radial



- Aluminum cast housing and impellers
- Cost efficient and robust
- Life-time lubricated bearings
- Process safe and resilient
- Quiet and low vibration operation

### G-Series Side Channel



- Wear free
- Very quiet as a result of sound engineering
- Dust resistant
- UL/CSA approved
- Up to 40,000 operating hours
- 50/60 Hz voltage range motors

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### ■ Tray sealing machine

From stacking to evacuating and capping prefabricated trays, all processes take place under vacuum. For most applications packaging under oxygen as the protective gas is the standard method.

### ■ Forming machine

During deep drawing processes, vacuum is needed in the sealing tool and in shaping the tray. Here again, the use of oxygen is an option.

### ■ Chamber machine

Classic initial packaging takes place in a chamber machine. All products are placed inside a bag by hand. In the next step they are manually inserted into the chamber machine and then sealed.

### ■ Trim removal

Edge trimmings and stamping waste are collected directly from the machine by an extractor fan (with waste container) or conveyed under vacuum over longer distances through a pipeline to a central collection point.



**F-CEVF**



**F-RER/F-REL**



**G-BH1**



**G-SAH/G-SAP**



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## General Packaging



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### Filling and closing machines

When bottling drinks, cosmetics and pharmaceutical products, the recipient is frequently evacuated before being filled to ensure that the contents keep longer. Food to be canned is introduced through a tube into the chamber.

### Labeling

In the labeling of containers made of glass, plastics or metal, vacuum pumps ensure the correct positioning of the labels during the cutting-out stage.

### Degassing water

In the production of high quality drinks (mineral waters, fruit juices etc.) water must be used which was previously degassed under vacuum in suitable systems.

### Other applications

- Pick + place
- Freeze drying
- Pneumatic conveying



**G-BH1**



**G-SAH/G-SAP**



**L-BL2 Compact**



**L-BV5**



**V-VC** (also available  
for oxygen applications)



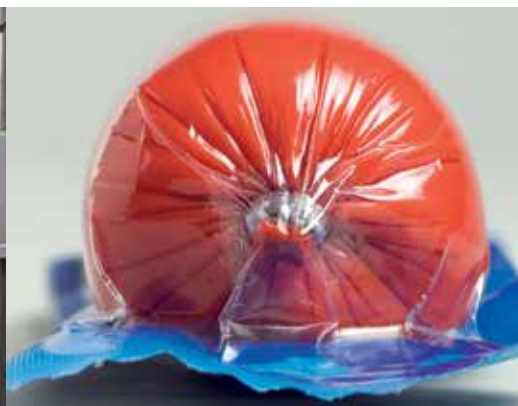
**V-VTR**



**C-VLR  
ZEPHYR**



**S-VSI  
TWISTER**





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