

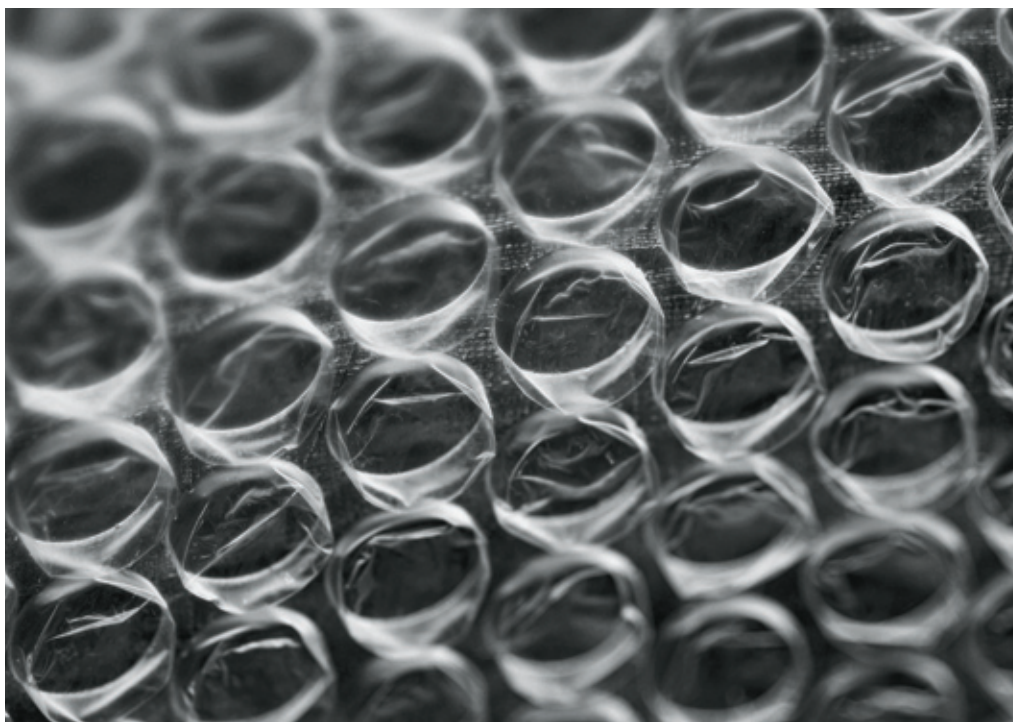


# Vacuum and Pressure Solutions for Non-Food Packaging





Elmo Rietschle. Leading the Field.



## Why Elmo Rietschle?

From our point of view, of course, we see many reasons why you should work with our company for your vacuum and pressure application products:

- Our long history of product and application know-how
- Precise knowledge of processes in the packaging industry
- High quality products
- A global service network with on-site support
- Knowledgeable, personal consultation from our engineers
- Unmatched range of vacuum and pressure technologies

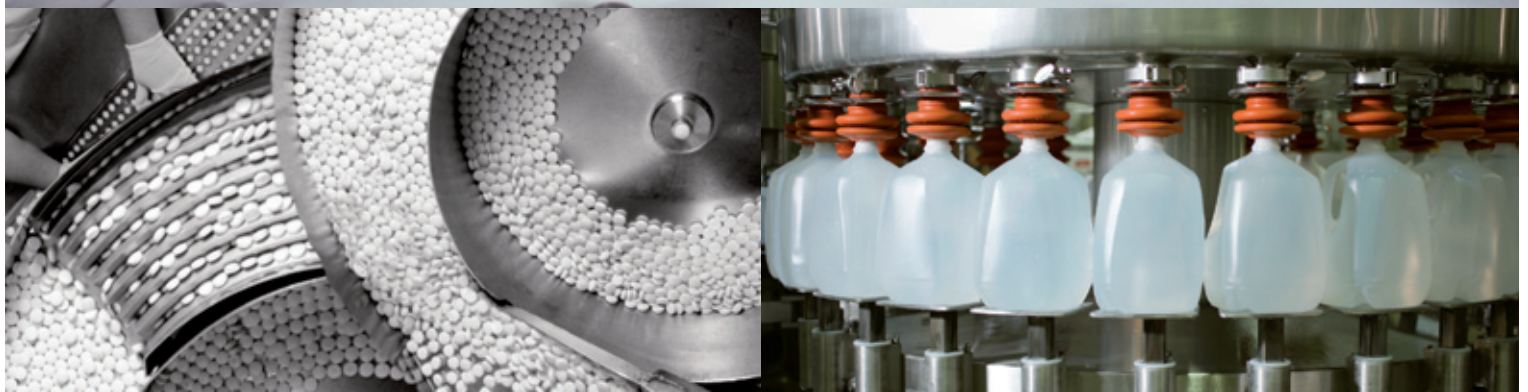
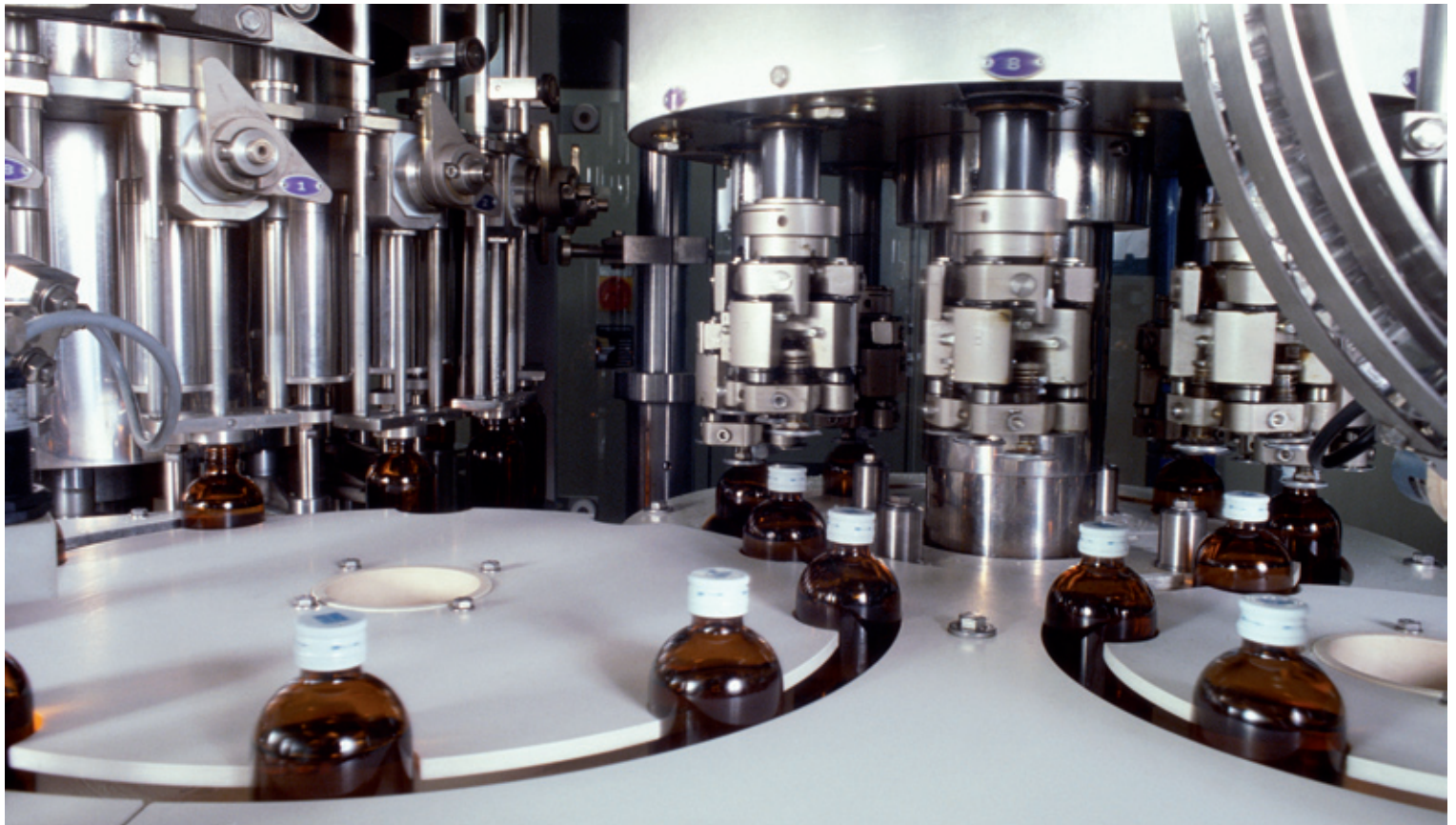
But that is not enough from your point of view – your expectations are higher. And rightly so. The decisions you make regarding partners with whom you want to work also depend on whether the following value-added parameters are fulfilled:

- Fair market pricing
- Competitive operating costs
- Environmental compatibility and durability
- On-time delivery
- Low maintenance costs
- Competent after-sales service

Only after all of these prerequisites and requirements have been met can you be sure that you have made the right decision.

With vacuum pumps and compressors from Elmo Rietschle, you acquire more than “just” a first class product that precisely fits your needs – you have a solution. Once that is done, you do not have to worry about our pumps and compressors for the time being – we keep our promises. Take our word.

## Peace of Mind.



## Vacuum and Pressure for Non-Food Packaging Applications



## Vacuum packaging

When packaging products, prior to sealing a vacuum pump is used to remove air from the packaging.

## Trim removal

Film strips that are cut off are sucked into a container.

## Air cushion machines

Film tubes are inflated with compressed air and welded together to form cushions. These cushions can be used as protective filling material.

## Reduction of transport volume

Clothes are shrink-wrapped to minimize space requirements in charge trucks and containers.

## Filling and closing units

In chamber and rolling machines vacuum is generated to suck off air from the packaging. Afterwards the inert gas can be set free or the bag can be sealed.

## Evacuation

When bottling beverages, cosmetic or pharmaceutical products, the bottle is first evacuated before being filled to make sure the product reaches the customer in good quality or just to make fast filling possible.

## Blister machines

Blister packaging is often vacuum generated.

## Vacuum forming

For vacuum forming, an additional pump is needed at that part of the machine.

## Carton erecting

Pre-cut cartons are opened and optionally glued on one side directly at the packaging machine with the help of a vacuum pump and a feeder. Afterwards they can be used as covering boxes i.e. for the transport of non-food articles.

## Further Applications

- Drying (Air Knives)
- Holding
- Palletising
- Production of paper bags

	F-Series Radial	G-Series Side Channel	L-Series Liquid Ring	V-Series Rotary Vane	R-Series Rotary Lobe	C-Series Claw	S-Series Screw
Vacuum packaging		●	●	●	●	●	●
Trim removal	●	●			●		
Air cushion machines		●					
Reduction of transport volume		●		●			
Filling and closing units		●	●	●		●	●
Evacuation			●	●		●	●
Blister machines		●	●				
Vacuum forming		●		●		●	
Carton erecting		●		●			
Further Applications	●	●		●		●	
		●		●		●	
		●		●		●	
		●		●		●	
		●		●		●	



**F-CEVF**



**G-BH1**



**G-BH2  
VELOCIS**



**L-BL**



**L-BV2**



**V-VC**



**V-VTE**

## Non-Food Packaging

There are many processes in non-food packaging that require vacuum or compressed air. The decision for a certain technology or possible combination is made by our application specialists in close cooperation with our customers. Many factors such as operating costs, noise emission or maintenance frequency are taken into consideration and we will find the ideal solution for you. Our long tradition in this industry, our committed engineers and the unique choice of technologies at Elmo Rietschle make sure we keep our promise.



**R-WVB**



**F-RER/ F-REL**

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



**F-Series**  
Radial



**G-BH7**



**G-SAH/G-SAP**

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



**G-Series**  
Side Channel



**L-BV5**



**L-BV7**

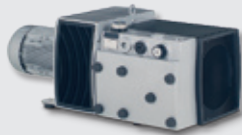
- Monoblock design
- Excellent resistance to corrosion
- No sediments
- High resistance to wear
- Increased water carryover available
- UL/CSA approved
- ATEX approved
- Can also be used as closed system or in pump set combinations



**L-Series**  
Liquid Ring



**V-VLT**

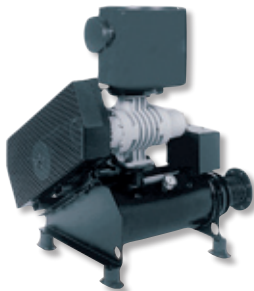


**V-VTR**

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



**V-Series**  
Rotary Vane



**R-WPB**

- Robust and economical
- Dry running
- Modular design
- Process safe and resilient
- Available as single aggregate
- Comprehensive accessories
- Worldwide service
- Frequency control available



**R-Series**  
Rotary Lobe



**C-VLR**  
ZEPHYR

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



**C-Series**  
Claw



**S-VSI**  
TWISTER

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



**S-Series**  
Screw



We are at home throughout the world – and near you. Our service personnel speak your language. Take our word.



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**Gardner  
Denver**

Elmo Rietschle is a brand of the  
Gardner Denver Blower Division