

frans vermeer®

VERPACKUNGSTECHNOLOGIE • PACKAGING TECHNOLOGY

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FRANS VERMEE GMBH – A SHORT PROFILE



The company was founded in 1982 and is located at the current address in Remagen since 1989.



Since the company's foundation it operates in the food and chemical industry as a specialist supplier of packaging machinery. Within that field of focus the Frans Vermee GmbH concentrates its business activity on the consultancy, conceptualisation and assembly of the machinery.



The Frans Vermee GmbH is holding the exclusive distribution rights for the High-Pressure-Processing (HPP) equipment of the American machine manufacturer AVURE Technologies for the region D-A-CH (AVURE Technologies Germany).

B₂B

The firm's customers are solely business customers.

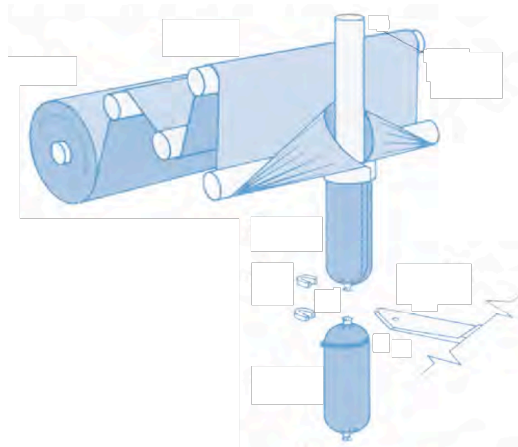


The personnel is highly qualified, characterized by its high industry experience and available to speak five languages.

PACKAGING MACHINERY

CHUB

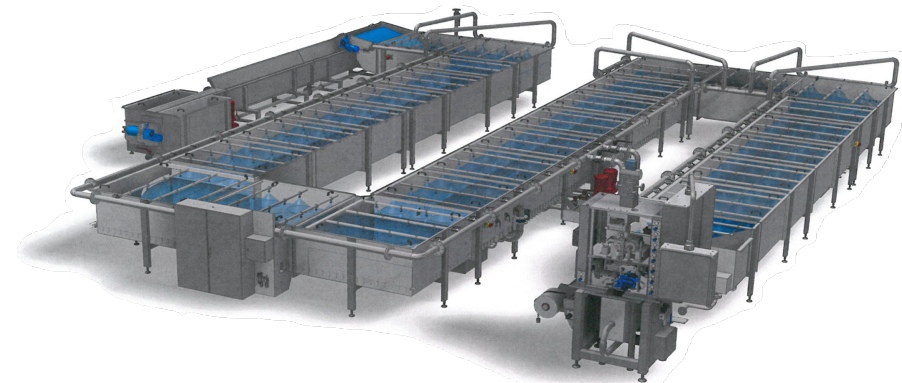
The CHUB Packaging Machine is a perfect solution to fill and pack almost any kind of pumpable products (e.g. liver sausage, melted cheese in the food industry or explosives or PUR in the non-food industry). A flat film is sealed to a tube within the machine, will be filled with product and finally clipped and separated. The machines do not need any expensive casings and preformed clips. Standardized flat film and aluminum wire from a coil will lead to cost savings in the packaging material-without having a lack of product quality.



HOT-MELT

Adhesives, also called Hot-Melts, are normally packaged in silicone paper boxes. By using our continuous operating filling machine, silicone coated paper is replaced by a flat film which will be sealed to a tube. This means that the product is covered with the film after the filling process. This film will be mixed with the product during the final melting process. The film residuals (less than 0,6%) do not have an influence on the processing and/or the adhesive property. With the help of the adhesiveness of the packaged material the packages can be closed. Expensive silicone coated paper, clips for closing the packages and time-consuming unpacking of the adhesives is unnecessary.

The Packaging Machine fills adhesive products without any air bubbles within the package. We furthermore can combine this packaging machine with a cooling line. As the melting point of the flat film is lower than the hot-melt product temperature (between 115-160°C) we cool the products within our cooling line for having a cooled and stable product at the end of the complete line. The machine is also able to package bitumen.

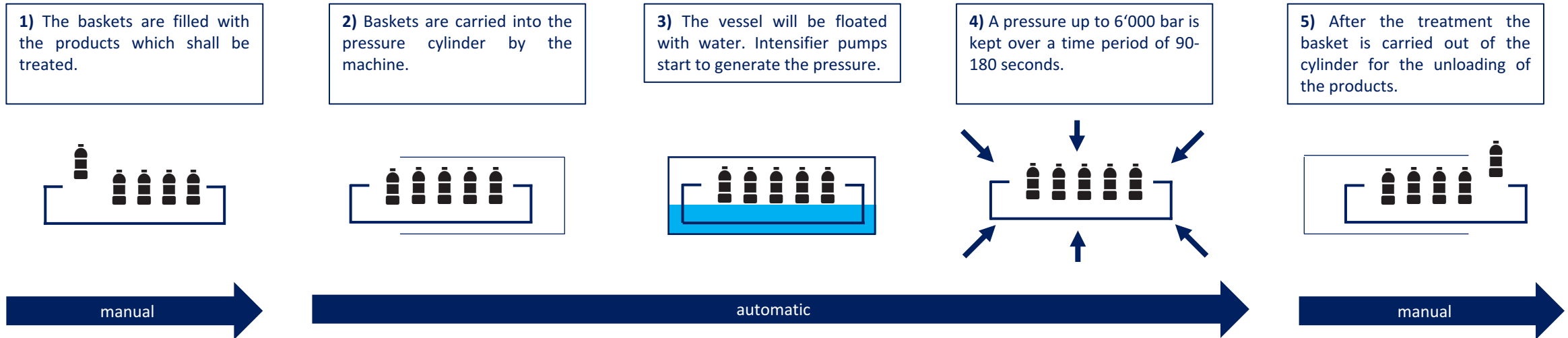


HIGH-PRESSURE-PROCESSING (HPP)

With High Pressure Processing (HPP) you can combine food safety and a longer shelf life. HPP protects and defends food by subjecting packaged products to high pressures - up to 6.000 bar. It is an all-natural process that uses purified cold water to inactivate food-borne pathogens, like Listeria and E. Coli, without preservatives or chemicals. The lack of heat (thermal processing) means HPP products taste better and retain their nutrients, which ensures producers deliver the absolute tastiest food on the planet. For further information feel free to view the following video: <http://avure-deutschland.de/avure-anlagen/>



Schematic representation of the **process cycle**:




HIGH-PRESSURE-PROCESSING (HPP)

DEMAND FOR HPP

- ❖ The HPP-Technology in general is still in the **early stages** in Europe
 - is currently almost only used for the treatment of juices
 - Juice market itself already shows **exponential growth** with an increasing HPP share
 - High growth opportunities
- ❖ The technology can be used for a **wide range of products**
- ❖ With the **method's rising prominence** the technology is applied to more and more different groups of products
 - Retailers want to list HPP-treated products
 - **Demand for HPP-equipment of food producer is increasing**
- ❖ SMEs in the food industry are looking for an opportunity to outsource the HPP-Treatment
 - **Tolling market** is growing
 - Demand for HPP-equipment of tolling suppliers is increasing

SUITABLE PRODUCT CATEGORIES

- | | | | |
|---|---------------|---|-------------------|
|  | Smoothies |  | Marinated meat |
|  | Juices |  | Processed fish |
|  | Ready-To-Eat |  | Crustaceans |
|  | Guacamole |  | Meat alternatives |
|  | Hummus |  | Pet-Food |
|  | Spread |  | Cold cuts |
|  | Sauces, Dips |  | Cosmetics |
|  | Coconut-Water |  | Baby-food |

SPARE PARTS & CUSTOMER SERVICE



In addition to the delivery and the commissioning of the packaging equipment the company offers regular maintenance of the machines. This service is offered worldwide so that the firm's technicians have extensive experience abroad.



The company distributes original spare parts for the CHUB- and hot-melt machines. With proactive warehousing the firm provides high quality spare parts even on short term requests. In the exclusive distribution agreement between AVURE Technologies and the Frans Vermee GmbH commissioning and services are also included for the region D-A-CH.

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