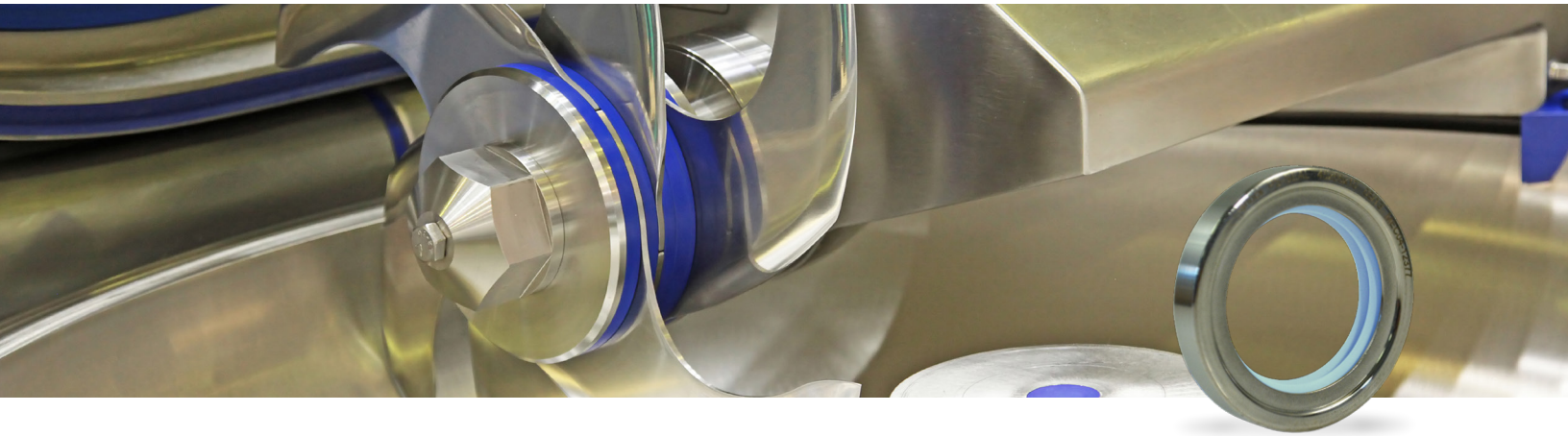


## Case Study: PS-SEAL® with GYLON® Style 3504 Food & Beverage



### INDUSTRY

Food & Beverage

### BACKGROUND

The customer is focused on developing and manufacturing machines for the food industry. A special feature of this company is that each machine is manufactured according to the individual needs of their customers. This is accomplished using the latest state-of-the-art technology and in compliance with the highest hygiene requirements.

The manufacturer's product portfolio includes food mixers, meat processing machines, processing plants, temperature control machines, cooking systems and emulsifiers.

Many foods are a mixture of different high-quality raw materials. To adequately mix these raw materials, the technology has to be adapted to the corresponding product. For this purpose, the customer can fall back on a large portfolio of food mixers with different mixing speeds, machine sizes and mixing tools.

### CHALLENGES FACED

The seals in the customer's high-speed mixers have to be resistant against speed, temperature and sticky media. FDA and EC1935 compliance requirements prompted the manufacturer to find a new solution with Garlock for all mixing and processing machines.

### OPERATING CONDITIONS

**Temperature:** 100-180°C (212-356°F)

**Speed:** up to 2700 rpm

**Pressure:** -950 mbar up to 1 bar

**Produced Media:** Food and beverage (meat, fish, convenience, vegetarian, cheese)

**Cleaning Process:** CIP and SIP

### SOLUTION AND BENEFITS

Our customer always guarantees the best quality for each individual machine component. Their specialist teams and Garlock determined together the best solution for the technical requirements of their mixing and processing machines.

PS-SEAL® with GYLON® Style 3504 static sealing element fulfilled all requirements and was implemented in their mixers. GYLON® Style 3504 and the specific design of the housing, combined with the excellent resistance to the media, exceeded the customer's expectations. They removed all previous solutions from the product range and set Garlock exclusively in their specs.

For more information, please visit:

<http://www.garlock.com>

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