

Garlock 3-D Seal

Case Study: Mechanical Engineering - Machinery for Sugar Production



Industry

Mechanical Engineering - Sugar Industry

Customer

Our client offers machinery, individual process steps and entire factories – the perfect contact, whenever it comes to the industrial-scale production and refining of sugar. These are engineering services “Made in Germany” across the globe.

Background

With its batch and continuous centrifugals, the customer has been successful across the globe and across sectors. So the demands are high.

Challenges faced

The enduser challenged our customer due to constant vacuum loss during the crystallisation process. Our customer has been using old technology with stuffing box packings for years, but these have to be frequently readjusted by the maintenance team in order to maintain the required vacuum.

Operating Conditions

Speed: up to 52 rpm
Temperature: up to 115°C
Application: Vertical vacuum pan mixer
Media: Thick juice (sugar content 65-80%)
Pressure: Vacuum up to 0,5 Bar in cleaning process
Solution: 3D-sealing system

Solution and Benefits

With added values like increasing lifetime, safety for the employees, long-term cost savings and increased productivity we have convinced our customer to design the new pan mixer with the Garlock 3-D Seal.

For more information, please visit:

www.garlock.com

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