

Innovative solutions for sustainable and durable rotating applications

Application

Medium: 3.5 to 5 tons/ 770 lb to 11000 lb of grain flour with minerals and small stones

Number of revolutions: 400 1/min
Temperature: 23°C / 74°F
Shaft diameter: 200 mm, 7.874"

Challenge

- High product leakage rates (25 kg/d) (55 lb/d) of the existing sealing rings
- High sealing gas consumption
- Breakage of the tensioning spring of the sealing rings
- Contamination of the segmented sealing rings with the medium

Root Cause

- Selection of an unsuitable seal design

Solution

Installation of a highly innovative, resource-saving SDF300 seal design, which led to:

- Reduced leakage rates of seal gas and medium
- Improved running-in behavior
- Protection of the medium from outer contamination
- Low wear and low friction
- 10 K lower temperature rise inside the seal



old sealing design



SDF300 sealing design

FIELD CASE

SDF300

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