

#IS13006

Slurry pump

The Challenge

The water contains a lot of slurries (mill scale, scaling). This caused the packing that was installed on these pumps to only last 1 month. The annual maintenance costs, including sleeve wear and labour, was almost € 1 500 per year per pump. The customer was interested in a solution that could help them reduce the monthly maintenance and decrease their overall costs for these pumps.



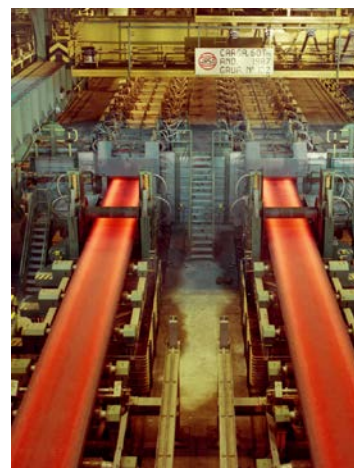
Application Details

Equipment	Circulation pumps	Quantity: 10
Medium	Cooling water supply at rolling department	
Pressure	8 barg	Temperature 70°C

The Chesterton Solution

Chesterton recommended a Superset with SpiralTrac and a PTFE/Graphite slurry packing (1830SSP). The SpiralTrac actively removes all slurry particles from the stuffing box. As a result, the packing was lasting close to one year.

The next step will be to install a Flowmeter to further lower the flush water usage.



ROI

The Superset was installed in April 2011 and since then they have only to repack it once every year.

Previously:

12 times x €50 per repack = € 700 per pump annually
 Annual cost of maintenance:
 € 700 x 10 Pumps = **€ 7 000**

Now:

1 x € 150 per repack = € 150 per pump annually
 Annual cost of maintenance:
 € 150 x 10 pumps = **€ 1 500**
Annual savings: € 5 500

Why Use This Solution?

- Less maintenance
- Less packing used
- Lower costs
- Flush water can be lowered, reducing associated costs.

Products used in this solution

[SuperSet & Spiral Trac](#)
[1830 SSP Slurry packing](#)

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