SCHAEFFLER

Schaeffler Global Technology Solutions

Steel and non-ferrous metals

Mounting Service at a Wire Mill reduces Downtime Costs

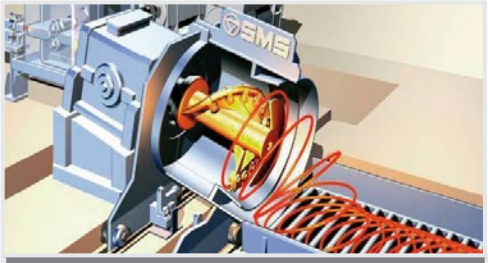
The customer is a Brazil-based, globally operating steelmaker and a leader in the long steel production industry. It operates hundreds of facilities in America, Europe and Asia with a workforce of more than 35 000. Its products are used for example, in cars, trucks, tractors, houses, bridges, roads or household appliances.

Challenge for Schaeffler

When the customer called Schaeffler, the company had an unplanned shutdown of its wire mill due to damaged bearings. These bearings had been mounted by the customer's staff just two weeks before. By comparison, the original bearings being installed in the mill before, had been in service for around four years before they failed. As such downtimes are very expensive, the customer needed support immediately.

Schaeffler Solution

The very same day Schaeffler received the emergency call, an experienced mounting expert was sent to the customer. He had total flexibility with regard to time and work. So he could provide tailor-made support. The mounting expert detected that the bearings had failed due to wrong mounting. Additionally he supervised the professional fitting of the new bearings. Besides providing this first aid, Schaeffler also conducted a practical training course with the customer's staff which comprised proper mounting using the right mounting tools.



Technical Information about the plant
Wire Mill
Max. speed:
2122 U/min
Wire exiting velocity:
more than 300 km/h
Wire diameters:
from 5.5 mm to 22 mm
Diameters (mm):
5,5 to 15,0 15,5 to 22,0
Tolerances (mm):
± 0,30 ± 0,40
Max. ovalization (mm):
0,40 0,50

LuK INA FAG

Laying head at wire mill

Expert tools for mounting and dismounting

The red hot wire is put into shape

Customer Benefit

This time – even though Schaeffler provided support in an extremely fast and fle-xible manner – the shutdown lasted five days as the customer was not very well prepared when the mounting expert arrived. Without Schaeffler support, it would even have lasted about two days more. Thanks to the professional training they received, the customer's personnel is now also familiar with this type of mounting job and has the right tools at its disposal to ensure much faster repairs and less repair downtime costs in future.

Current case of bearing damage	
Estimated production disruption costs without Schaeffler support:	7 days x € 200 000 € 1,4 M
Actual production disruption costs with Schaeffler support:	5 days x € 200 000 € 1 M
Future cases of bearing damage Production disruption costs with immediate repair by customer's personnel:	Approx. 2 days x € 200 000 € 400 000

Proper mounting leads to an estimated bearing service life of four years. Thus the customer can realise further savings.

What's special

The customer praised Schaeffler for offering not only products but solution packages – in this case, bearings, failure analysis and mounting service. The high degree of satisfaction is also shown by some statements of training participants: "The service was 10 out of 10 (points) and exceeded our expectations". It was an honor to work with a high level company and to learn a lot about the mounting of bearings."

Technical Information about the Solution

Bearings installed:

- 1 cylindrical roller bearing 804753 (400 x 500 x 46 mm)
- 2 angular contact ball bearings 7040MP.UA100 (200 x 310 x 51 mm)

GTS 0009/ 01 / GB-D / 201304