



Summary

Industry:	Metals
Application:	Rolling mill drive
Actual Saving:	Improved design
Payback Period:	Immediate



Re-designed Series W Gearboxes Improve Efficiency and Reliability

ISSUE

A large steel manufacturer was experiencing numerous mechanical failures on their rolling mill drive, affecting production levels and delivery schedules. The customer had been using old worm gearbox units, however, due to their age sourcing parts was becoming an issue as these drives were now obsolete. The ERIKS Drives technical team were asked to examine the application and provide a suitable solution.

After an initial examination of the rolling mill application, they discovered excessive wear on the worm gears along with increased energy consumption, 2kW instead of the recommended 1.5kW.

SOLUTION

Working with the customer the Drives technical team selected a Fenner Series W gearbox, this unit offers excellent mechanical strength, lightweight construction and significantly improve reliability on the troublesome drive.

The technical engineers re-modelled the gearbox line using their CAD system - the new units were much larger - which led to shortening the double ended input shaft and using Falk WrapFlex couplings to link all the gearboxes. The couplings were fitted from the outside, allowing individual gearboxes to be disconnected and removed in isolation without disturbing the neighbouring units.

The Drives technical team sent full drawings of the machine bed enabling the customer to match the footprint of the Series W units. In addition, the HTD pulley drives were re-specified so they cater for the new centre distance from the motor to gearboxes.

OTHER BENEFITS

- Dimensionally interchangeable geared drive
- Reduced mechanical failures
- Improved plant efficiency

FURTHER COMMENTS...

The customer is thrilled with the rolling mill upgrade, helping improve efficiency and reliability whilst reducing downtime.

MORE INFORMATION

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