



Summary

Industry:	Metals
Application:	Shot Blast Finishing Mill
Actual Saving:	£000
Payback Period:	n/a

Fenner



Air Motor and Fenner Cyclo Inline Gearbox

ERIKS update a reclaim screw process for a steel manufacturer

ISSUE

A reclaim screw on the shot blast machine was running with an air motor and gearbox at a large steel plant in Scunthorpe. Failures were becoming more and more frequent due to the age and general condition of the unit, which was also exacerbated by the fact that the machine was running a larger screw than when the drive was originally designed. With this in mind the plant engineer contacted his local ERIKS Service Centre for assistance in identifying a suitable, reliable solution.

SOLUTION

Paul Carline and Dave Johnson, the regional Drives Technical Specialist inspected the troublesome drive, an old air motor and gearbox which was now obsolete and under specified for the current application.

Following discussions with the on-site engineers and looking at ways to increase the power of the unit, the more obvious electrically driven units were found not to be an option, due to the location in which the drive operated. Therefore the best solution would be a new more powerful air motor, used in conjunction with a Fenner Cyclo inline gearbox which kept the overall dimensions to a minimum. The new unit gives an increase in power of 50% and offers a much higher service factor to increase the overall plant reliability.

OTHER BENEFITS

- Obsolete unit replaced with new higher specified unit
- Quick response and build time of new unit
- An end to down time due to this unit failure
- Replacement of indirect drive from unit to screw with a heavier duty drive

FURTHER COMMENTS...

The new drive was built and despatched, along with a new chain drive to ensure maximum efficiency, in a couple of days and has provided the site with a reliable, more suitable solution for the application.

MORE INFORMATION

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