



Summary

Industry:	Food - Bakery & Cereals
Application:	Cooker Application
Actual Saving:	£4.5k on unit purchase price
Payback Period:	



Geared Motor Available Off The Shelf Dramatically Cuts Leadtime

Redesigned drive provides reduced downtime and significant cost savings

ISSUE

A large breakfast cereal producer's cookers are currently driven by a very complicated and bespoke double reduction gearbox incorporating a built in torque limiting device. The gearboxes run at 2 speeds, 0.5rpm and 15rpm. Not only are these extremely expensive to purchase but also on a lengthy delivery of 10/12 weeks. With these lead times in mind any production issues would prove to be very costly to the customer. ERIKS Core Competence Centre for Drives and Power Transmission sent an engineer to assist in providing an alternative solution.

SOLUTION

ERIKS were able to offer two solutions, the first, a replication of the existing arrangement utilising the Fenner product range. An inline Fenner Series M geared motor with torque limiter arrangement, although much cheaper than the original unit, delivery was still an issue with a 6-8 week lead time.

ERIKS second recommendation was an inline Fenner Series M geared motor, this was in turn controlled by a Yaskawa V1000 inverter. Due to its constant torque features the inverter was able to control the motor at 3Hz and 85Hz to achieve the required output speeds. The inverter also has the capabilities of acting as a torque limiting device due to its ability to detect a rise in current caused by overload. The motor was fitted with a forced cooling fan to keep it cool when operating at low frequencies. To minimise any plant modifications, a base plate was supplied to replicate the existing bolt hole centers with the Fenner Series M gearbox.

The customer implemented the second choice which provided them with an off the shelf solutions available in hours rather than weeks, this allowed them to realize cost savings through reduced down time and a cheaper unit price.

OTHER BENEFITS

FURTHER COMMENTS...

ERIKS provided the customer with the recommendation they had asked for and then went further to provide a second recommendation which engineers knew would save the customer time and money.

MORE INFORMATION

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