



Summary

Industry:	Automotive
Application:	Ventilation Fan Upgrade
Actual Saving:	£5,947 pa
Payback Period:	1 month



ERIKS Upgrade for Luxury Car Manufacturer

ERIKS upgrade ventilation fan to increase efficiency

ISSUE

During a recent period of plant downtime at a luxury car manufacturer, the Aintree branch of ERIKS Electronics was called in to upgrade a ventilation fan used for extracting shavings from a large Reichenbacher wood milling machine. Driven by a single 45kW motor controlled by a Star Delta starter, the fan system was running constantly, but only occasionally at full speed.

SOLUTION

Operating 24-hrs per day, 5 days per week, ERIKS calculated the system to be costing the company £9,051 per year in energy bills. To ensure power more closely matched demand, ERIKS engineers specified and installed a new control panel based on an Omron E7 drive. The solution was integrated into an existing PLC system, and included a timer-based system that initiated a similar motor during ramp down to shake the filter bags full of shavings and clear the extraction vents. The new motor control system is calculated to cost £3,104 running for the same 5256hrs per annum as the original Star Delta starter based system, providing cost savings of £5,947 per annum, with a payback time of a little over one month.

OTHER BENEFITS

FURTHER COMMENTS...

"The ERIKS team worked closely with the customer and installed the new system over three days during a period of planned maintenance downtime at the plant"

MORE INFORMATION

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know-how makes the difference

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