



## Summary

<b>Industry:</b>	Metals
<b>Application:</b>	Inverter
<b>Actual Saving:</b>	£n/a
<b>Payback Period:</b>	n/a



## Constant Torque Inverter for Crane Hoist

ERIKS gets crane hoist up and running

### ISSUE

As a result of a recent visit to a large steel manufacturer, ERIKS were requested by senior plant engineers to assist in the urgent replacement of a 45KW constant torque inverter for a hoist which had been out of commission for a few months. The hoist was waiting for a repaired P.C.B. from an alternative supplier, who was unable to offer a firm delivery date.

### SOLUTION

ERIKS Electronic Services immediately set to work comparing the drive criteria for the existing drive with an alternative suitable for a hoist application which matched or improved upon the existing drive. In addition the application had very specific dimensional criteria and needed to fit within a tight envelope as well as being available from stock.

Within a few hours a drive had been selected and costed for delivery to ERIKS facility in Aintree. The unit was delivered on a Saturday morning to allow for the ERIKS Electronic Engineers to include specific parameters onto the unit.

The application is a crane hoist, which technically is quite challenging because the system is lifting heavy objects. The drive had to interface to raise and lower signals as well as seven stepped speed inputs from a crane control pendant.

For Hoist applications it is important that the Inverter has control of the hoist motor brake. When the Crane lowers and raises its load the inverter is required to pre-torque the motor before the brake is lifted to ensure no jerking. When lowering, the load the system will go in to regeneration which will then require the inverter to engage its built in Brake Chopper Module to dissipate the energy in the braking resistor.

All these functions were taken in to consideration when the unit was selected.

### OTHER BENEFITS

- Solution which meets the stringent needs of the customer
- Cost avoidance

### FURTHER COMMENTS...

ERIKS engineers started to commission the unit on Monday 5th September and completed full test and sign off by customer engineers on Tuesday 6th September to the delight and appreciation of the customer.

### MORE INFORMATION

#### ERIKS Industrial Services

Amber Way, Halesowen,  
West Midlands B62 8WG

**Tel: 0845 006 6000**

**Web: [www.eriks.co.uk](http://www.eriks.co.uk)**

know-how makes the difference

