



OVERVIEW

Optidrive master-slave mode creates new opportunities!

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COMPANY

INVERTEK DRIVES SPAIN

In-built Master-Slave function provides flexible performance

Barcelona, Spain

Invertek Drives Spain is benefiting from focussing on markets where the highly innovative features of the Optidrive range can be exploited to the full, an approach that has delivered big benefits for Invertek in the Spanish market.

The latest application success is a winding machine for cabling polyester flexible conduit. This application makes use of the in-built Master-Slave function of the Optidrive Plus 3^{GV}, which provides a simple yet flexible means of coupling a network of drives together using the Optibus protocol. The Master drive transmits its operating status and output frequency automatically to any connected Slave drives and the Slaves then follows the operations of the Master drive, with independently adjustable speed scaling. In this application, the speed ratio scaling for the Slave drive Optidrive Plus 3^{GV} was controlled via Modbus RTU, connected through an Invertek supplied splitter, to a touch Panel and PLC.

A key benefit of this approach is the ease and speed with which the system can be set up. A single parameter configures the Optidrive Plus 3^{GV} for Master or Slave operation, whilst a second parameter allows the speed scaling control to be selected from the Modbus communication network. From the operator panel, the machine operator then chooses the speed for the master drive, the ratio for the slave and distance of advance for the master. The system is fully digital and simplifies this application enormously

This simple approach provides a comprehensive and cost effective solution, eliminating the need for large amounts of time programming a PLC to calculate ratios, speeds, etc. In this application the PLC is only used for control of digital input and output functions and encoder counting to stop the motor at the required distance. The Master - Slave arrangement of the Optidrive executes the main task with the operator panel transferring data to the drives as recipes.

The end result is a simple, flexible yet powerful solution that opens the door to hundreds of applications where ratio control is required. Optidrive Plus 3^{GV} is a highly attractive solution for such applications, providing an optimum control solution often at a fraction of the price of alternative systems on offer.



email: sales@invertek.co.uk web: www.invertek.co.uk

Invertek Drives Limited

Offa's Dyke Business Park, Welshpool, Powys. UK. SY21 8JF
Tel:+44 (0)1938 55 68 68 Fax:+44 (0)1938 55 68 69