

Media Release

VFD increases precision and speed of food packaging sealer for Latin American manufacturer

A manufacturer of food packaging and sealing solutions is helping its customers increase productivity while reducing packaging costs and wastage with the introduction of Optidrive variable frequency drive (VFD) technology.

Brazil-based JCV Maq manufactures a range of packing, sealer, weighing and feeder machines used by food producers and manufacturers. It was keen to increase the precision of one of its packaging sealing machines to improve speed and motor accuracy, resulting in reduced film packaging wastage.

Working with Altus, a sales partner of Invertek Drives in Brazil, Optidrive E3 VFDs were introduced to one of its packaging sealer product ranges. This resulted in immediate improvements and efficiencies.

“One of the company’s products seals food into film vacuum packs at 60 units a minute. However, using its existing VFD supplier’s products, it found it was difficult to control the precision of the machine at start/stop. This resulted in excess packaging being fed through for each product sealed,” said Marcus Silva, Invertek Drives Country Manager for Latin America.

“They required a start/stop ramp of almost zero. Working with Altus, they found the Optidrive E3 immediately improved the precision of the motor feeding the film through the machine. Less packaging was then used even with increased speed.”

Three Optidrive E3 IP20 VFDs in Frame Size 1 enclosures were introduced. One was installed to control the movement of the film, another to control the unwinder, and the third controlled the packaging mat. They were 240v input, 0.73kW, 0.5HP and 240v input, 0.75kW, 1HP.

Daniel Andrade of Altus said: “The client has been impressed at the instant results. The precision means they can offer their customers a more efficient and productive product that helps them reduce costs through package wastage while increasing productivity.

“The Optidrive E3 in frame size one means the drives are compact enough to be installed and commissioned easily on the machines without taking up much space. It’s a perfect solution.”

The Optidrive E3 is a compact, robust and reliable general-purpose drive. It is available in IP20 enclosures up to 22kW and IP66 up to 7.5KW.

It includes application macros for industrial, pump and fan modes, making it ideal for a wide range of applications.

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More details are at www.invertekdrives.com.

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Notes to the Editor

Invertek Drives

Invertek Drives Ltd is dedicated to the design and manufacturing of electronic variable frequency drives for controlling electric motors. Established in 1998 it has grown year-on-year and is now one of the world's leading innovators in VFD technology.

In November 2019 it was acquired by Sumitomo Heavy Industries Ltd (SHI), a leading global manufacturer and distributor of power transmission and control equipment. Invertek's UK headquarters, located at Welshpool, Powys, UK, houses specialist facilities for research and development, manufacturing and global marketing.

All operations, including research and development, are accredited to the exacting customer focused ISO 9001:2008 quality standard whilst its Environmental Management System is accredited to the ISO 14001:2004 quality standard.

In 2019 a new 5,500 sq. metre global manufacturing and distribution facility was opened at the headquarters, allowing production of up to 400,000 VFDs a year. Invertek's products are sold globally by a network of specialist distributors in over 80 different countries.

Invertek Drives unique and innovative Optidrive range is designed for ease of use and meets with recognised international design standards for CE (Europe), UL (USA) and CTick (Australia). More details can be found by visiting www.invertekdrives.com.