

Case Study

Automotive cleaning chemicals manufacturer turns to Optidrive

A tank agitator with a demanding high torque at start-up was causing production problems for the manufacturer of specialist automotive cleaning products.

Mexico-based Margrey, which manufactures chemicals and products used for cleaning and detailing in the automotive sector, was struggling to find a variable frequency drive (VFD) capable of handling the high start-up current and demanding mixing application.

“The mixer motor needed to reach 75HP. However, the density and volume of the liquids being mixed placed high levels of stress on the mixer blades at start-up,” said Marcus Silva, Invertek Drives Head of Sales in Latin America.

“This meant a high-powered motor and VFD was needed to handle the start-up current required.”

InnovationCom, a sales partner of Invertek Drives, worked with Margrey in Jalisco to develop a solution. They identified the Optidrive P2 as a VFD more than suited to the application. It would control a 480V, 3 Phase, 7.5HP motor.

“The agitator mixes a range of substances with different densities. So, it was important to have complete control at all stages of the mixing process, from start-up with a high-current, through to variable speed control during each stage of the mixing process, or where additional substances are added,” added Marcus.

“In addition, the enclosure protection of the drive, due to the environment it was operating in, and its physical size were also importance factors. They wanted a drive that could be easily installed into an existing cabinet on the mixer. A combination of these meant the company was struggling to identify a suitable VFD.”

The Optidrive P2 is one of the most powerful VFDs in its class. It combines high performance with ease of use. It can handle 150% overload for 60 seconds. In this instance, an IP55 rated, Frame Size 6 with 110A, 380V-480V, 3PH input was chosen.

“The customer was impressed with the speed of the installation and commissioning, something the Optidrive range is well known for. Its ability to handle the large capacity and powerful motors without any problems was also a major plus for the business which has been able to continue production without any issues,” added Marcus.



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For more media information, contact:

Owain Betts, PR, Media and Communications

t: +44 (0)1938 558 253

m: +44 (0)7787 437 052

e: Owain.Betts@invertek.co.uk

w: www.invertekdrives.com

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 quality standard whilst its Environmental Management System is accredited to the ISO 14001 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.