Siko Ltd
Precision in Motion

Pharmaceutical

Providing customers with a total solution to all position measurement and control applications.

Our aim is to provide every customer with cost effective, efficient measurement and motion solutions further strengthened by expert technical support and outstanding personal customer service.

- Expert advice & technical support from experienced application engineers
- Fast track production system for urgent orders
- ISO9001 Certification and RoHS compliant
- Large ex-stock range
- Unique Product Solutions

Our Application Engineers welcome the opportunity to discuss your situation to help achieve the results you need - however basic or complex your measurement challenge appears, so please get in touch.

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Our Client

Customer is a manufacturer of process technology and packaging machinery to the pharmaceutical industry and exports worldwide.

The Situation

This was an existing customer where we were supplying our hand wheel indicators to display manual axis position measurement over a period of decades. Therefore they were aware of our extensive product range and contacted us to discuss a new measurement application.

They have a machine that makes highly dense and compact tablets for the health supplement industry. The machines were to be made automated with up to 10 position encoders to indicate axis movement. Each movement needed absolute position feedback over a number of revolutions and the position of axis was not to be lost even if movement takes place with the power off. A pre-requisite for this machine, as if position was lost the effect could damage the expensive tooling. Also the forces generated by the machine would be reflected directly at the encoder so it must be ensured that the encoders would be capable of withstanding the shock and vibration forces.

Our Solution

We were able to offer our absolute multi-turn shaft encoder which was internally adapted to be able to with stand the higher shock and shaft vibration levels expected on this machine. The initial sample was supplied and the machine fitted with vibration and shock testing equipment so that levels could be confirmed at the position the encoders were to be installed.

The customer preferred the SIKONETZ RS485 communication method allowing them to daisy chain the devices with each node component having its own address making the connections and cabling easy and low cost.

The Result

The modified encoders could now handle these extreme shock and vibration forces the production machines can generate and proves to be highly reliable solution.