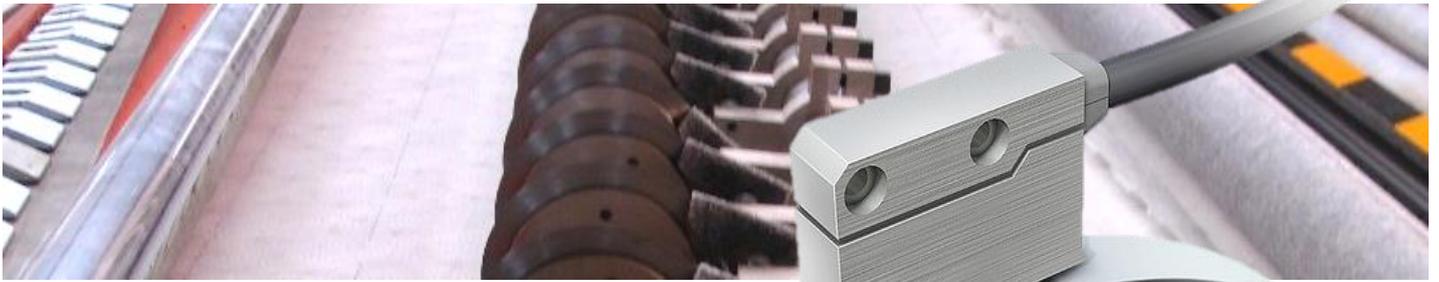


Total solution to all position measurement and control



Paper Converting

Providing solutions to application ideas

Our customer is a leading manufacturer of bespoke web handling and converting equipment machines to the plastics, paper, film, foil and web converting industry. They have been producing machines for over 35 years and export worldwide.

The company had an application where they were using additional incremental shaft encoders fitted externally to the rear of each rotary drive motor to give shaft position and speed. There are normally a number of these motors on each machine. Each encoder also needed extra components such as couplings and mounting brackets in the attachment to each rotary shaft, adding each time to the mounting space required. Also this method was extremely costly and difficult to maintain in the case of having to remove the encoders from the machine when service work was required, as standard rotary encoders have a finite bearing life depending upon handling and shaft loads. Our customer required a simpler and more cost effective solution with a better service life.

We decided that the best solution was to mount a non-contact magnetic ring on the shaft of the motor with the position/speed sensor installed directly next to it. Ideal as the customer's motor shaft is 40 mm diameter as is the bore of our standard magnetic ring. We could also give them the 2048 increments per revolution required to prevent any changes to their existing control system. Our magnetic ring, being 8mm wide, didn't require a lot of space and the new sensor we recommended was non-contact which meant it was maintenance free.

For many years now this company has successfully used this solution without any failures. They tell us it has proved reliability above their expectations along with a reduction to their machine footprint. Overall the solution saved the customer money on material and installation time, while also maintaining the reputation of this company of producing quality machines in this market.



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Our Application Engineers welcome the opportunity to discuss your situation to help achieve the results you need.