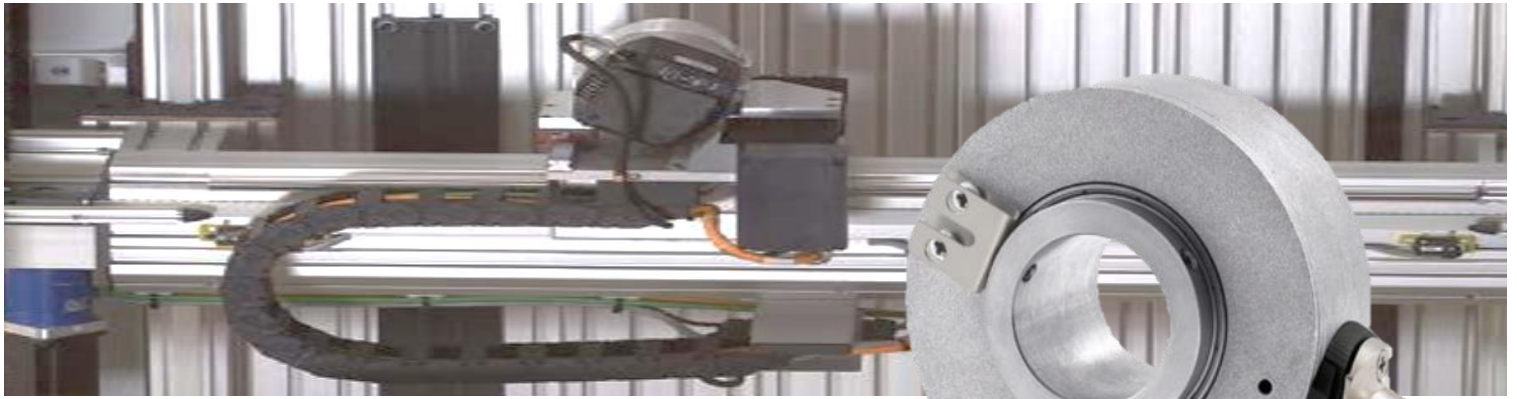


# Total solution to all position measurement and control



## Machine Tool

### Providing solutions to application ideas

UK manufacturer of **computer controlled machines** for the UK and World market.

We were **already supplying our solid shaft rotary encoders** to this client as they had used our parts in an existing machine where the encoder was driven by a rotary solid shaft, connected by a flexible coupling. The encoder was fixed by a ridged support to prevent the housing turning, a standard solution when applying such products.

**They knew that we provided help and** support with a standard solution, so they called us again during the design process of their new machine.

The brief for the new design was to **mount the encoder directly to the rotating shaft**, to eliminate the cost of additional coupling and mounting pillars and also keep the mounting space to a minimum.

The solution was to **supply a through-bore encoder which was mounted directly to the rotating chuck and could operate at a high speed of 4000rpm**. The large bore C80 was chosen as the encoder has available a standard 42mm diameter through bore allowing the product to be machined to pass through the centre of the rotating spindles. The encoder is supplied pre-wired with a 3 metre lead to connect directly to the customer control. The output can operate from a wide voltage range of +5 volts to 30 volts D.C. and boasts a universal signal level of 5 volts Line Driver or alternatively Push Pull with compliments. The option of switching at 300 Khz was chosen to allow the 4000 rpm top speed to be achieved without loss of pulses.

Our client chose this highly reliable, good quality product which also **saved them money due to the elimination of extra mounting components associated with solid shaft equivalents**. Also this mounting version had a positive impact on installation cost and its compact nature allowed the client to keep the machine design as compact as possible.



Siko UK Ltd t: 01845 523626

e: [customersupport@siko-uk.com](mailto:customersupport@siko-uk.com)

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