Total solution to all position measurement and control

Book Binding

Providing solutions to application ideas

A leading specialist in manufacturing printing and paper converting machines from slit and cantilever systems, book presses, printers, folders to bespoke systems. They have 110 years manufacturing experience and export worldwide.

Our **customer wanted to re-design their folding and binding machines** preferring an absolute positioning device which was compact and cost effective. The customer **was using special motors and an additional absolute Profibus encoder on their current machines** which they wanted to design out due to their large size and cost. In this case they **needed a motor and absolute encoder for each adjustment axis.** They also wanted the opportunity to **upgrade their drive system** so it had integrated absolute position feedback and Profibus communication. The customer was also taking the opportunity to upgrade the mechanics on the machine to highly efficient ball screws so that the torque requirements from the drives would be kept to a minimal level while axis positioning speed remained higher.

The solution was to design in one of the unique hollow through bore actuators which has integrated absolute encoder, drive electronics, profibus communication. The drive delivers the required 5 newton metres while allowing all the axes to be adjusted to position within a time requested by the client. The hollow bore mounting is simple and eliminates the need for extra mounting pillars and couplings and keeps installation costs to a minimum.

The extremely **compact nature of the solution allowed the customer to keep the machine size down to a minimum** which was important when there are so many axes on each machine .This meant the overall machine footprint was reduced this helped our clients customers reduced the machine installation space.