Total solution to all position measurement and control

Carpet Machine

Providing solutions to application ideas

Our customer design and manufacture carpet shearing, coating and drying machines for the carpet industry with over 100 years of trading experience and exporting worldwide.

We have worked with this company for over 20 years and have gained their trust by providing the best, cost effective quality solutions. They therefore approached us to discuss the following application.

Our **clients were designing a machine that could be able to automatically load and unload rolls of product.** To do this they had a load arm on each side of the product. The arms were independently driven and therefore it had to be ensured they moved together, if they did not then they could damage the product and possibly even the tooling. It was requested that we could offer a solution to safely move the arms without the axes going out of synchronisation and prevent any type of crabbing.

The **harsh application environment meant the robust magnetic linear sensors were chosen** due to their non-contact technology giving maintenance free operation combined with IP67 environmental protection. The **two linear sensors, one on each axis fed independent position signals into a controller.** The controller was a differential type so that you could set a maximum hysteresis value that you did not want the sensors to deviate from. If this value was exceeded the drive would be switched off until the other axis caught up. Once this happened then the drives could move together in synchronisation again.

Their **clients can now detect where the crabbing issue is arising and fix the problem quickly**, reducing downtime and making the machine operation safe, preventing the potential damage to product or tooling which could be very costly for the end user.

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