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ABB drives help metal component maker to cut out stoppages

Samuel Taylor, a specialist manufacturer of bimetallic strips, has improved the reliability of its production line by retrofitting two applications with ABB variable speed drives (VSDs).

The production line consists of a leveler, grooving and inlay machines, a bonder and a recoiler. The recoiler originally used a DC motor but the need to replace the commutator brush gear meant the motor was often in for repair.

Adford CNC, a specialist in CNC machine tool servicing and repair, refitted the recoiler with a 5.5 kW AC motor, controlled by a 7.5 kW ABB general purpose drive, ACS580.

Alan Bolton, proprietor of Adford CNC, which worked with ABB authorised value provider, Sentridge Control, on the project, says: "As a modern, digital AC drive, the ACS580 offers many parameters to precisely set or adjust the drive to suit the motor and application."

A second ABB general purpose drive was installed on the motor on the bonder.

"The direct-on-line (DOL) motor was prone to blowing fuses because of the high initial mechanical resistance. We fitted a 15 kW ABB general purpose drive to control the maximum current drawn when starting the motor and overcoming the inertia of the drive train.

"The client is very satisfied as this has completely cured the problem," says Bolton.

Photo caption: ABB drives are helping Samuel Taylor to cut out stoppages on its production line

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