



## Case Study – Finished Parts Detection

Established in 1975, Bailey & Wade has a great reputation for supplying high quality, precision turned parts to a range of industries including the automotive, electrical, security and plastic industries.

Bailey & Wade maintain their great reputation by producing high quality precision turned parts and being consistently reliable. Bailey & Wade have excellent customer service and always put its customers first.



As a forward thinking progressive company Bailey & Wade were already established customers of Emmaco U.K. Ltd with several Argotech Process Monitoring systems installed on their sliding head machines. These systems help Bailey & Wade both maximise the machine output but also assist maintaining the high level of service and reliability to their customers. When an issue arose Bailey & Wade were quick to understand that Emmaco U.K. Ltd may be able to provide a practical solution.



Argotech Process Analyser

The issue was simple in that there was a tendency for components to fail to be collected by the parts catcher. The random nature of this event was undetectable. A side effect of this was for parts to physically block the swarf conveyor. This resulted, on occasion, to a significant build-up of swarf within the machine enclosure.

Whilst this seemed a small issue it became a time consuming irritation with associated cost and production implications.

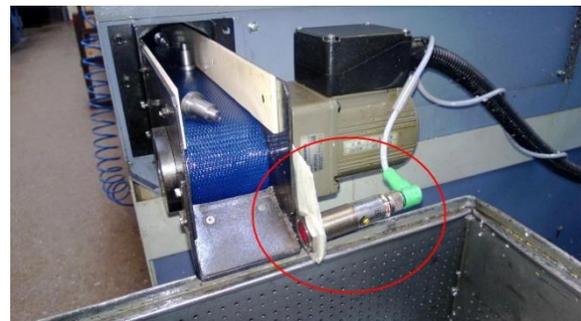
Emmaco U.K. Ltd. were called in and made an assessment of the situation. It became clear the most practical solution was to detect the parts being ejected from the conveyor system. A suitable 'Optical' sensor acting as a light curtain was fitted (as pictured). The device sent a signal each time a part passed through the beam corresponding to the component cycle. This could be programmed to permit a specific deviation relative so long as any risk to the production would not occur.

Since the initial installation any occurrence causing machine damage or delay to production has been averted.

The device can be used independently but connected through the Argotech system immediate and complete control of the process is secured.

Whilst the use of the Argotech system is generally for the detection of tool wear and breakage this application reinforces the principle of 'Process Control'. The Argotech system can react and control from any suitable sensor signal. The success of this application has resulted in this now being another 'standard' option for your Argotech system.

Another way to really maximise machine tool efficiency.



'Optical' Sensor parts detector

Emmaco UK are the sole agents for Argotech Process Monitoring System providing a comprehensive consultation, installation and service capability.

For more information please contact us at [info@emmaco.co.uk](mailto:info@emmaco.co.uk) or call 020 8398 7733. Further information on our products and services is available at [www.emmaco.co.uk](http://www.emmaco.co.uk)