



# Acme Gridley Screw Machine Rebuilder Improves Cycle time by 33%

The screw machine industry has weathered a number of challenges in recent years, and in spite of global competition, many U.S. Based companies are discovering that optimizing some of their early and late model Acme-Gridley screw machines is an inexpensive alternative to buying a new machine. The most important step in the optimization process is to team up with an innovative Screw Machine Rebuilder.

## Choosing the Right Rebuilder

Founded in 2007, Brett May Engineering, also known as BME, is better known for their attachments and tooling but they're also gaining notoriety as an excellent option as an Acme-Gridley rebuilder. "It was a simple transition", says Brett May, BME owner and President. "Customers would turn to us for specialty tooling and attachments for their challenging Acme jobs – the next logical step was to expand from the tool zone and rebuild the entire machine. We accepted the challenge."

## Incremental Productivity Enhancements

BME understands the benefit of incremental productivity enhancements in the tool zone, that's why they turned to Logan Clutch for help on the machine end of the rebuild process. "When we visited with customers on their shop floor, we could see how a machine equipped with Logan Hi-Lo Retrokit Clutches and Controls would totally outperform their other Acmes." says May.

Smooth, fast acting air actuated clutches in the Logan Retrokit are much more reliable than conventional mechanical clutches, and significantly reduce the cycle time on any part being made on the machine. The CS2001 control eliminates relay logic, and enables further cycle time reduction in 1-degree increments. The easy to read screen dramatically simplifies set-up. Brett continues, "If they can operate a CNC machine, they can also run an Acme".

## Cycle Time Reduction – Big Time

BME recently rebuilt an Acme 1-1/4 RB-8 with spindle stopping, for a job shop that needed to keep up with demand for a popular part. Prior to the rebuild, the shop was paying overtime and also used an outside supplier to make additional parts. The existing machine was run at a slower cycle to avoid the risk of crashing tools during speed changes.

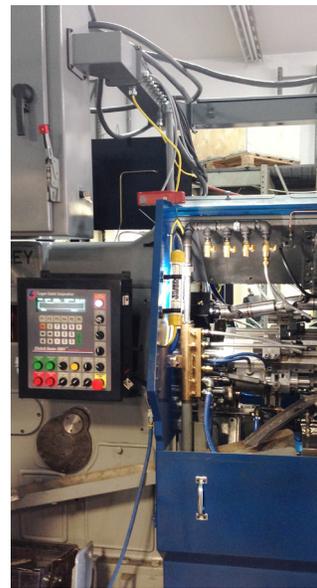
With the rebuilt machine using a Logan Hi Lo Retrokit and CS2001 control, the slow cycle and tool breakage risk was eliminated (due to consistent Logan Clutch speed changes). The cycle time of the part was reduced from 13.5 to 9 seconds, a 33% reduction in cycle time, leading to a huge boost in productivity. Overtime and outsourcing was no longer required to meet customer deliveries. The return on the Investment (ROI) on the BME rebuild was also a huge boost to the job shops top and bottom line.

Other benefits of the Logan Control that the customer highlighted were the tapping failure detection and the machine lock-up detection. Plans are underway to rebuild more machines.

Logan Clutch appreciates the valuable partnership that it has with BME and their ability to integrate Logan products with their capabilities to help customers reduce costs and improve productivity.



BME Rebuilt 1-1/4 RB-8 Acme is tooled and ready for production



Logan CS 2001 Control installed on a BME rebuilt 1-1/4 RB-8 Acme



BME completely rebuilds Acmes – starting from the machine base



Logan Hi-Lo Retrokits provide smooth, yet fast acting speed changes, optimizing machine productivity

For more information about LOGAN CLUTCH Machine Tool products please visit: <http://loganclutch.com/screw-machines>

For more information about BME Machine Rebuilding please visit: <http://www.bmeattachments.com/machine-rebuilding>



**Logan Clutch Corporation**

Productivity Enhancements for the Screw machine Industry

28855 Ranney Parkway • Cleveland, OH 44145  
800-525-8824 • sales@loganclutch.com

[www.loganclutch.com](http://www.loganclutch.com)



[www.bmeattachments.com](http://www.bmeattachments.com)

April 2017



Copyright 2017. Logan Clutch Corp. All Rights Reserved. [www.loganclutch.com](http://www.loganclutch.com)