



## Case Study

# Electro-Diesel Locomotive Engine Manufacturer Eliminates Safety Hazard & Cuts Cycle Time

### Customer Profile:

Engine Manufacturer specializing in Electro-Diesel locomotive engine manufacturing.

### The Challenge:

Spherical cut for a crab bolt on a locomotive engine block with a hole size of 1-5/16" and a 10" reach. After clip-ping on a safety harness to fixture, operator would climb up the fixture and manually attach the cutting head, climb down, unhook their harness, walk to the machine controls, press "go" to activate the back spotface cycle, and repeat. This method took one hour per spotface, as well as making the work environment unsafe.

### The Obtuz Solutions:

Fully automate the back spot facing operation with a torque bard activated Autofacer.

### The Results:

A massive reduction in cycle time from 1 hour to 5 minutes per spotface; 12 times faster than the previous method. All the while maintaining a 63 finish and eliminating a potentially hazardous operation. Obtuz Solutions was later informed that the operator was on the verge of quitting his job due to this operation. Switching to the Obtuz solution saved time, improved safety and saved and employee's job.

## Obtuz - The Deburring Solutions

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