



## Project: Cylinder Rod Repair

### The Problem

The cylinder rods on an automotive assembly line hoist were scored and pitted causing loss of hydraulic oil, efficiency, and a general mess.

Originally, the plant was looking to replace the cylinders with new cylinder rods, with a cost of over \$18,000, and loss of production. While on-site, an Unconventional Solutions Technical Consultant was asked if they had an economical alternative to replacing the cylinder rods. USI had the repair solution to save the company time and money.

### The Solution

The Unconventional Solutions Technical Consultant recommended **USI Metal Repair EG**.

The area was degreased with **USI Universal Cleaner** and the rods were heated to “sweat” out any absorbed oil. After another cleaning with **USI Universal Cleaner**, a series of holes were drilled along the score marks to add surface area for proper adhesion.

**USI Metal Repair EG** was applied, and a profile template was used to remove excess material. After curing, the original profile was restored with wet emery paper. The entire repair process was completed in six hours and was ready for production the following Monday, resulting in no downtime and significant savings over a complete cylinder replacement. The repaired cylinders were still in use 3+ years later.

