

CASE STUDY

LOCATION:

Royal Oak, Michigan

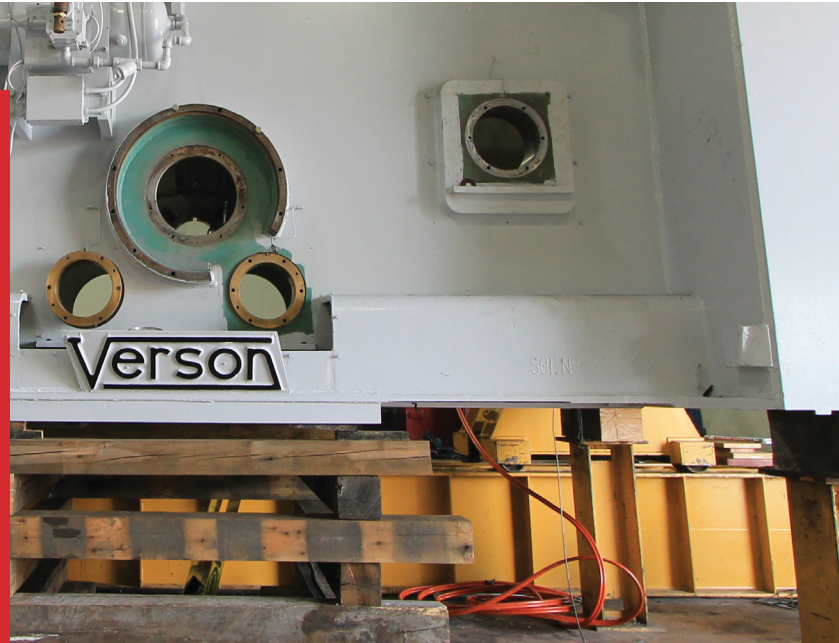
DEPARTMENTS INVOLVED:

Maintenance and Repair & Rigging

After the crown of one of the largest tier one supplier's Verson press machine became damaged beyond repair, the company purchased a new one and called Lee Contracting to install the crown on their existing press. However, the job consisted of much more than simply removing the old crown and setting the new one. The rigging team first went to the site to pick up the old crown with their in-house gantry system, rolled it over and set it down on bunks. Next, the Lee Contracting maintenance and repair team disassembled the old crown in hopes of using those same parts in the newly purchased one.

Challenge

While the crown was disassembled, the Lee Contracting team found damage to the eccentric bushings. This is where Lee Contracting was presented with the first challenge. Eccentric bushings help to reduce friction between two objects and are critical because of their ability to minimize vibration and noise. Ordering new bushings could take six to 10 weeks for delivery, but Lee Contracting knew that would push the project timeline back significantly. Thankfully, the team used their experience, and positive supplier relationships, to think outside of the box. Lee Contracting was able to get unfinished bushings from the supplier, machined them and hand grooved each one in-house. The result? A two-week turnaround for the client instead of six to 10 weeks.



Results

Once the maintenance and repair team was finished with the disassembly, the rigging team hauled the old crown out and brought in the new one. The Lee Contracting maintenance and repair team stepped in to put the machine back together with the refined parts. During the project, Lee Contracting's maintenance and repair team had a few more notable accomplishments:



Re-built the hydraulic overload protection system to prevent any damage to the press in the event of an overload



Fixed damaged intermediate gears by in-house welding the entire shaft



Lee Contracting was the perfect solution for this client's project because the experienced team had the expertise to notice the imperfections to the crown, and provided a cost-effective and timely solution to the client.