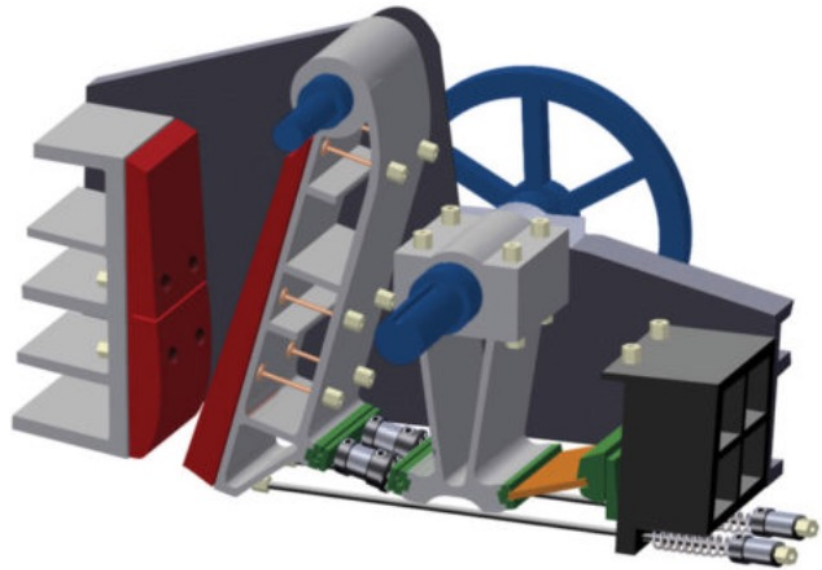


**CASE STUDY****COST-EFFECTIVE,  
FASTER REPLACEMENT  
CYLINDERS EXTEND  
CRUSHER LIFESPAN  
AND MINIMIZE  
DOWNTIME****SUMMARY**

Hydraulic toggle crushers play a crucial role in mining operations by crushing large rocks into smaller, manageable pieces using heavy-duty cylinders. Maintaining peak performance requires periodic overhauls, which can be expensive and time-consuming. Motion Repair and Services delivered a superior, cost-effective solution by manufacturing high-quality replacement hydraulic toggle cylinders, significantly reducing lead times and costs while enhancing equipment reliability.

**THE CHALLENGE**

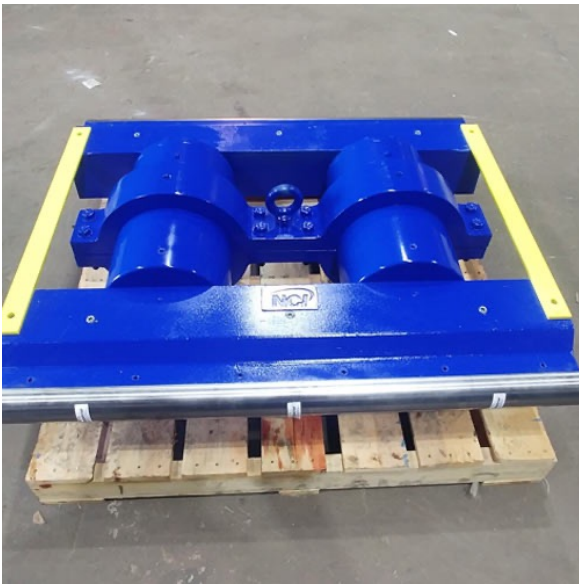
A regional mining equipment refurbisher faced significant operational challenges due to the high costs and extended lead times associated with OEM replacement parts, particularly hydraulic toggle cylinders. These delays threatened production schedules and increased the total cost of ownership, necessitating a more agile and affordable alternative.

**THE SOLUTION**

Motion Repair and Services leveraged its advanced engineering expertise to reverse engineer the worn-out hydraulic toggle cylinders. The team incorporated several thoughtful design enhancements such as advanced surface coatings to improve wear resistance, optimized seal configurations for better durability, and refined manufacturing processes to boost overall reliability. These improvements ensured the replacement cylinders not only matched but exceeded the quality and performance of OEM parts.

## THE RESULTS

Motion Repair and Services produced and delivered two replacement hydraulic toggle cylinders that surpassed OEM quality standards. The solution came in at 20% lower cost and was delivered in half the typical lead time, dramatically reducing equipment downtime. The customer was so impressed with the results that they have since designated Motion Repair and Services as their preferred partner for all toggle and tensioner cylinder repairs, strengthening their ongoing operational efficiency.



## PARTNER WITH US FOR RELIABLE SOLUTIONS

Our collaborative approach and technical expertise help customers improve equipment reliability, reduce costs and achieve long-term operational success. **For more information, visit [Motion.com](https://www.motion.com) or call 1-800-526-9328 today.**