

# CASE STUDY:

## Dampers Built to Last Indefinitely



**W-TECHNOLOGIES**  
CUSTOM HYDRAULIC SHOCK DAMPERS

## Dampers Built to Last Indefinitely

W-Technologies

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### The Challenge

In 2004, a customer in Northwest Indiana, purchased (4) H50 W-Technologies hydraulic dampers, as part of a turnkey operation to preserve the life and efficiency of a new press.

Thirteen years later, in 2017, the customer requested a quote for a complete rebuild due to the normal wear of the seals. The rebuild will restore the dampers to like new condition and will continue to preserve the press life, increase press capacity, and reduce noise.



## Scope of Work

The first step to the rebuild was to disassemble the units. Once the unit was disassembled, the machine components were inspected and cleaned.

Parts that were replaced included:

- Oil reservoir "O" rings
- Cylinder to manifold "O" ring
- Seal packing
- Wear band
- Back-up ring
- Spring
- Snap ring
- Needle valve or valves\*
- Relief valve or valves\*
- Sight gauge
- Socket head cap screws
- Hydraulic oil
- Pressure gauge and fittings (used to set pressure)

*\*Some large dampers will have two valves*

After all the parts were replaced, new hydraulic oil was added, and the updated hydraulic damper went through charging and testing under pressure to ensure that all the updates are working properly.

After using the dampers for L3 years, the dampers were rebuilt to work as if they were brand new. By replacing the dampers, the customers cut the cost to a fraction of what it would have been if they purchased new ones.

W-Technologies is the only hydraulic shock damper manufacturer who offers a rebuild. W-Technologies, also offers a complete spare parts kit if the customer elects to rebuild the dampers in their own shop.