TOOLS FOR BRIDGE MAINTENANCE

Maintaining and repairing concrete and steel bridges requires powerful tools. Enerpac hydraulic tools are used in a variety of tasks to repair a bridge to confirm and maintain the integrity of these structures. Our broad portfolio of solutions will enable you to complete your task regardless of the bridge design.

LIFTING and JACKING



Enerpac offers several solutions to lift bridge decks for many maintenance activities, such as bearing replacement or repositioning. The correct solution is dependent on the bridge design and location.



The **RSM/RCS-Series cylinders** (up to 100 ton) have the lowest profile and can lift bridges shorter distances required for bearing replacement, while the **CLP/CLL-Series cylinders** (up to 1000 ton) provide either low or tall profiles with the additional benefit of a mechanical locking feature that, when engaged, will keep the bridge deck in place in the event of a loss in hydraulic pressure.



BLS-Series cylinders (up to 200 ton) have the capability to cover the greatest distances with a longer stroke and a wide base for stage lifting. After the cylinder extends, blocks are placed beneath the base to support the bridge while the cylinder retracts for the next stage lift.

ANCHOR BOLT, ROD and CABLE TENSIONING and TESTING



Testing and tensioning of bolts, rods and cables requires unique tools. Enerpac offers hollow cylinders that are designed to pull on these objects to create tension.

The **RRH / RCH-Series Cylinders** (up to 150 ton) are hollow cylinders capable of both pushing and pulling objects, and the **RACH-Series Cylinders** (up to 150 ton) offer this same capability in a lightweight design. This is just one of the Enerpac cylinder series that utilize aluminum and composite materials to maximize portability.



PILE TESTING and DE-PROPPING



Pile testing can require tremendous forces, but regardless of the force required Enerpac has a very broad offering of cylinders.

The **CLSG/CLRG-Series cylinders** (up to 1000 ton) are our highest capacity tools and are commonly used to apply great force to a single pile. These cylinders are also common in de-propping concrete and steel bridges to and from temporary supports.

TORQUING and TIGHTENING



Bolts are typically loosened and tightened when replacing steel chords and beams, and Enerpac offers multiple solutions for controlled tightening to the required specifications.

The **PTW-Series pneumatic torque wrenches** (up to 6,000 ft-lbs) deliver fast and accurate torque, while the **S-Series hydraulic torque wrenches** (up to 25,000 ft-lbs) provide the greatest torque and precision. Lastly, **NC-Series hydraulic nut cutters** can be used to safely remove any corroded nuts.

SIMPLE & SOPHISTICATED CONTROLS



Many of these applications require the synchronization of multiple hydraulic cylinders. Enerpac provides several solutions to control and synchronize these tools. These solutions range from the simple **AM41 manifold** and **GA45GC gauge assembly** to the precise, integrated flow controls in the **SFP-Series split flow pump** or **EVO-Series pump.**

Tools for Bridge Maintenance

All hydraulic tools require a pump to generate pressure. Enerpac hydraulic pumps range from the compact and portable to the powerful and precise. Our offering provides a range of sophistication to match the requirements of your job.

XC-SERIES CORDLESS PUMPS / PU-SERIES ELECTRIC PUMPS



Pump Power	Speed	Flow Control
Electric		Manual

Z-CLASS PUMPS / 8000 SERIES PUMPS



Pump Power	Speed	Flow Control
Electric or Gasoline		Manual

SFP-SERIES PUMPS



Pump Power	Speed	Flow Control
Electric		Simple Synchronized Extension

EVO-SERIES PUMPS



Pump Power	Speed	Flow Control
Electric		Precise Synchronized Extension and Retraction





EXPERIENCE and EXPERTISE

Enerpac hydraulic tools have been used in bridge maintenance, replacement, and construction for decades, and our team has years of experience to ensure you have the right tools and knowledge to complete your job efficiently and safely.

Over time, Enerpac has also developed powerful solutions for the most complex projects. Thses systems have enabled the lifting, positioning and transportation of the world's largest structures. Whether your project is simple or complex, contact Enerpac for a solution to fit your needs.





PERFORMANCE When and Where You Need It

Tools for Bridge Maintenance



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