

## COMPRESSOR PERFORMANCE SOLUTIONS

Diagnostics, Optimization, and Lifecycle Performance

### Overview

Cooper Machinery Services (Cooper) specializes in diagnosing compressor performances, resolving complex issues, and implementing innovative solutions that enhance operational efficiency, maximize reliability, and boost asset profitability. Following the acquisition of ACI Services, Cooper has broadened its technical capabilities, engineering resources, and field service reach, strengthening our ability to support both O.E.M. and non-O.E.M. product lines while delivering greater value to our customers.

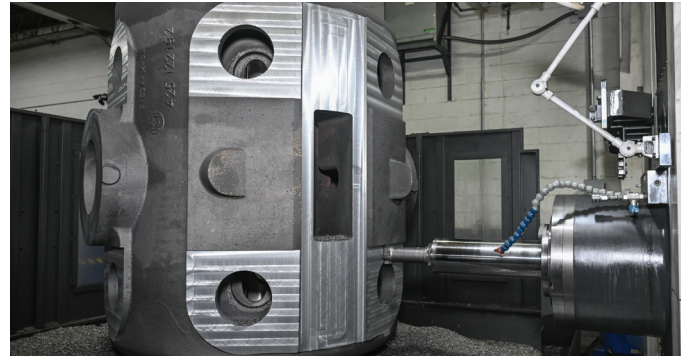
We now offer:

- > Compressor re-applications through O.E.M., non-O.E.M., or new custom-made cylinder design
- > Compressor valve upgrades
- > Compressor performance analytics with eRCM™ and ERCM+™

### Engineering Benefits

At the core of Cooper's service offering is engineering excellence. Our advanced technical capabilities allow us to model, diagnose, and optimize reciprocating compressor performance with unmatched efficiency and precision. Tools like our proprietary eRCM™ and ERCM+™ (Reciprocating Compressor Modeling) software enable us to simulate changes in speed, clearance, cylinders, and valves—providing deep insight into impacts on capacity, horsepower, and efficiency.

This data-driven approach allows us to identify optimal operating points, evaluate upgrade scenarios, rerate equipment, and support long-term maintenance planning. By combining modeling with real-world execution, we reduce trial and error while improving equipment reliability and efficiency.



### Compressor Re-Applications

Is your compressor no longer properly sized? As operating conditions evolve, such as declining wells or changing pressure requirements, existing equipment may no longer meet demand.

Rather than replacing the entire compressor package, Cooper will design and offer options such as O.E.M., non-O.E.M., or custom-made cylinders to integrate within your existing piping and vessels—delivering a cost-effective alternative. Through our ACI Services Division, we provide fully integrated turnkey solutions, from engineering and manufacturing to installation and commissioning.

### Compressor Valve Upgrades

Are your compressor valves underperforming or experiencing reduced life? Cooper leverages eRCM™ and ERCM+™ modeling software to accurately assess valve sizing and performance, ensuring optimal operation.

With a comprehensive range of engineered valve solutions, Cooper is uniquely positioned to enhance efficiency, reliability, and longevity across your compression systems.

A complimentary valve sizing review evaluates key operating parameters such as suction and discharge pressures, temperatures, RPM, and gas composition to identify opportunities for improved performance and extended valve life.



**LEGENDS DON'T STOP. WE MAKE SURE OF IT.™**

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## All Brands of Compressor

Our compressor re-application and valve solutions are brand-agnostic, supporting major reciprocating compressor brands such as Clark, Gemini®, Ingersoll Rand, Superior®, Worthington, and more.

## Field Services & Analytics

Cooper's field service capabilities are built on a long history of hands-on experience and a commitment to safety and reliability. Our team delivers field-based execution with detailed planning to minimize downtime, 24/7 rapid response for urgent needs, and a steadfast commitment to safety.

Using our proprietary eRCM™ and ERCM+™ software, we model how changes in speed, clearance, cylinders, and valves impact performance. This tool allows Cooper to optimize operations, identify the most efficient operating points, evaluate rerates and upgrades, troubleshoot performance issues, and generate detailed reports to support maintenance planning and compliance. By combining proactive modeling with execution, Cooper ensures you achieve maximum reliability and efficiency from your assets.



## Turnarounds

With proven expertise in managing critical turnarounds, Cooper delivers comprehensive outage planning and execution support. Whether performed in the shop or onsite in the field, our services include material planning, engineering proficiency, and expert supervision throughout every stage of execution.

Our team provides detailed documentation and around-the-clock support to ensure projects are completed safely, on schedule, and to the highest standards of quality.



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