

CPI Philadelphia Service Center Capabilities



Reciprocating compressors, Howden screw compressors operate in some of the most critical and demanding processes and applications. CPI's Philadelphia service center has experts who can provide certified maintenance and reconditioning to keep these machines performing at peak efficiency.

Reciprocating Compressor Products, Reconditioning and Services

Compressor Valves

- Reconditioning of all makes & styles
- CPI Hi-Flo™ Valves
 - Hi-Flo™ RS (Replaceable Seat)
 - Hi-Flo™ VP (V profile)
 - Hi-Flo™ RD (D profile)

Piston Rod & Rings

- Ring manufacturing (aluminum, cast iron, steel & anodizing)
- Modifications to ring/rider design
- Piston rings (PTFE, Thermoplastic, PEEK)
- Rider rings and bands
- Reconditioning (polishing, tungsten carbide thermal spray)
- Rod manufacturing

Packing Case and Rings Overhaul and Manufacturing

Sealing Components and PTFE Bushings

Emission Reduction

- EMISSIONGUARD™ TR² packing ring
- EMISSIONGUARD™ ES³ static seal
- EMISSIONGUARD™ purge panel

Compressor Cylinder Reconditioning

Reconditioning Crossheads and Connecting Rods

Lubrication Systems and Components

Engineering Services

- Valve dynamic calculations
- Compressor capacity curves
- Valve performance optimization
- Finite element analysis of all manufactured components
- Field service and PM
- Reverse engineering of components

Assisted Field Service



Philadelphia Service Center Capabilities

Howden Screw Compressor Reconditioning and Services

Reconditioning and field service on the following Howden screw compressor models:
XRV 127, XRV 163, XRV 204 WRV 163, WRV 204, WRV 255, WRV 321

Larger screw compressors can be reconditioned at other CPI by Howden facilities.

Screw Compressor Reconditioning

- Metalizing of shafts and discharge heads
- Rotor reconditioning
 - Repairing contact on inlet cover
 - Repairing hard chrome plating of bearing and shaft seal journals
 - Balancing
- Machining slide valve to accept an oversize guide block
- Grinding of shims to set clearances
- Cylinder honing
- Hand dressing work to clean up rotors and housings



CPI Service Center

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CPI, part of the Howden Group, delivers high performance compressor parts, a strong commitment to on-time service, exceptional quality control and the highest safety standards. Our experienced team of millwrights, journeymen machinists and engineers support our customers improving compressor efficiency, reliability and reducing their environmental impact.