



Piston and Rod Services

When compressor rods and pistons are worn or damaged, operators need a full-service resource capable of delivering an effective solution. Cook Compression® service centers provide turnkey repairs and manufacture quality replacement parts for all major reciprocating gas compressors, including high-pressure machines.

Responsive service, skilled technicians, state-of-the-art equipment and extensive technical support make Cook Compression a trusted partner for rod and piston solutions that enhance compressor reliability.

REPAIRS

Cook Compression service centers restore worn compressor rods, plungers and pistons to as-new condition.

From inspection through final assembly, Cook Compression delivers turnkey service with all materials, machining labor, logistics and technical support.



Thread rolling increases strength and eliminates stress risers



ADVANTAGES

- Full service repair and manufacturing
- OEM or better specifications
- Full traceability and quality assurance
- Engineering and technical support
- Extensive experience in gas gathering, transmission, processing and refining applications



- Compressor rod resurfacing and grinding
- Thread rolling
- Wear-resistant induction hardening on uncoated rods
- High-Velocity Oxy-Fuel (HVOF) spray technology for piston rods and pump plungers
- Repairs for all types of pistons
- Restoration of ring and rider band grooves
- Manufacturing and installation of new piston rings and rider bands
- Conversions to non-lubricated service



MANUFACTURING

If worn compressor rods and pistons exceed condemnation limits, Cook Compression manufactures replacement components backed by full warranties for materials and workmanship. All replacement products meet or exceed manufacturer specifications.

- Highest quality mill-certified materials
- Induction-hardening or tungsten-carbide coating of rods to resist wear (other coatings and surface treatments are also available)
- Thread rolling
- Induction hardening of packing areas on uncoated rods
- Piston machining from cast iron, aluminum or custom-specified materials
- Single-piece and segmental piston designs in an assortment of sizes, materials and specifications
- Anodizing for durability and corrosion resistance
- Evaluation of new piston designs using finite element analysis (FEA)
- Piston rings and rider bands in all configurations and materials

Induction hardening strengthens packing areas on uncoated rods

