

VALVE RECONDITIONING AND PACKING CASE REPAIR

For all component designs and compressor types

Worn or damaged valves and packing cases lead to inefficiencies, environmental problems and increased operating costs. Our expertise and engineering support cost-effectively restore them to like-new condition.

VALVE RECONDITIONING

Cook Compression refurbishes and reconditions your valves to original specification at a fraction of the cost of new valves.

- ▶ SAVINGS IN EXCESS OF 60% CAN BE ACHIEVED
- ▶ QUALITY-ASSURED RECONDITIONED VALVES ARE GUARANTEED "AS NEW"
- ▶ VALVE PLATES, COIL SPRINGS AND DELIVERY VALVE STUDS ARE SCRAPPED AND ARE NEVER RE-USED
- ▶ IF ANY MAJOR COMPONENTS NEED REPLACING, YOU ARE CONSULTED BEFORE WE PROCEED

PROCESS OVERVIEW

Valves are degreased and stripped into component parts for inspection. Seats and guards are processed by shot peening to remove all traces of foreign deposits. Remaining parts are inspected and approved for further service.

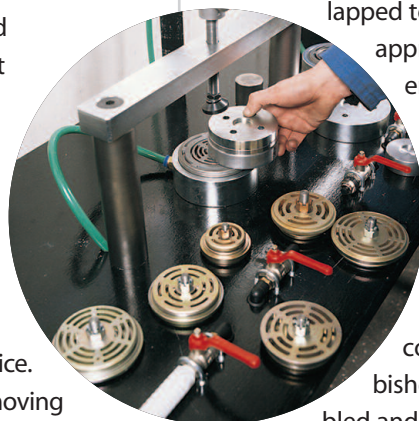
All re-usable internal moving parts are thoroughly cleaned in polishing machines. Damaged valve seats and guards are re-machined within original manufacturers'



tolerances to maintain their design performance characteristics.

All valve seat sealing faces are lapped to stringent,

approved standards to ensure perfect finish and flatness. Seats and guards are electroplated in a protective zinc passivate finish if necessary. The complete refurbished valve is assembled and given its final inspection and test before despatch.



Cook Compression guarantees that the service life of a reconditioned valve is equivalent to that of a brand-new valve operating in similar conditions.



PACKING CASE REPAIR

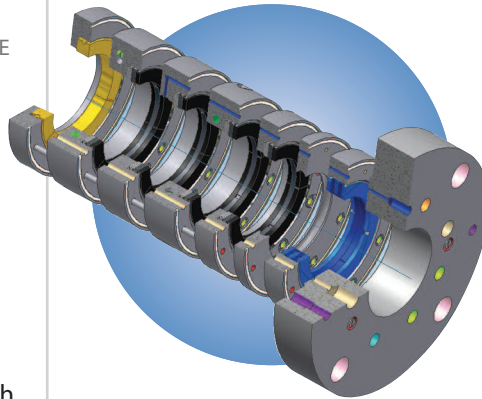
Cook Compression repairs all types of packing cases. Our dedicated repair facility is located within a Cook Compression manufacturing complex, ensuring a full range of expertise and resources are available for your needs. Our highly experienced personnel and extensive engineering capabilities also allow us to suggest upgrades to your existing designs and materials when needed.

- ▶ ISO 9000: 2008-APPROVED FACILITY WITH FULL TRACEABILITY AND QUALITY ASSURANCE
- ▶ ALL SERVICES PERFORMED IN-HOUSE TO REDUCE REPAIR TIMES
- ▶ FAST-TRACK SERVICE PROVIDES 24-HOUR TURNAROUND WHEN NECESSARY
- ▶ HIGHLY EXPERIENCED STAFF
- ▶ EXTENSIVE ENGINEERING AND TECHNICAL SUPPORT

PROCEDURES

The process begins with a thorough inspection of your case in its original condition. Our experienced technicians learn much from this initial examination to assist in resolving problems and to enhance future performance. The case is then cleaned and sealing elements are segregated.

Each component is inspected and any worn items are replaced. Cups are



machined to readjust sealing depths to required tolerances for proper side clearance. All flat surfaces are machined to parallel to ensure a tight gas seal between the packing ID and the rod OD. All sealing surfaces are ground or lapped to assure proper sealing of the packing to the cup and to enable tight cup-to-cup seals. Lapped surfaces are finished

Cook Compression offers extensive resources to reduce repair time, enhance compressor reliability and decrease your operating costs.



to within two light bands of absolute flatness if required. The checking length is verified to match original dimensions.

Cases are carefully reassembled using genuine Cook Compression packing, gaskets, o-rings and other parts as needed. Before shipping, jackets are tested on all water-cooled cases and pressure testing is performed as necessary.

To learn more about how our valve reconditioning and packing case repair can save time, improve compressor reliability and reduce your operating costs, contact your Cook Compression representative.



One Name, a World of Solutions

Compressor Valves | Capacity Control | Valve Restraining Systems | Rod Rings | Packing Boxes | Piston Rings | Rider Rings
Pistons | Rods | Cylinder Liners | Engineering and Technical Support | Valve Reconditioning and Packing Case Repair

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