Customer Support



Compressor Revamping Burton Corblin[®] Installations



Howden revamping process for compressor operating life extension. Howden installations are fully integrated to production sites.

After several decades of operations, a global mecanical assembly and fluid circuits review have to be carried out.

Compressor revamp or recommissioning operations are delivered in site or in Howden shops. A reliable, performing, fast and economical solution.

Howden propose compressor revamping operation, to reactivate or renovate equipements, after a few weeks stop. Equipements are requalified rapidly. This is a solution to avoid the long process for a new equipment reintegration in sites. Site operators recover equipments they know well.

Original manufacturer owns the compressor original design and construction documentation.

Howden keeps records on maintenance and operating conditions for many installations. Howden technical teams support current and past compressor models and technologies.

Howden supports equipement integrations and site operators in sites worldwide, in various and demanding sectors.

Howden service team skills are backed by a strong experience developped every day with site operators to satisfy their needs.





Revamp Preparation Process

After equipment identification, a review of the technical documentation, the check of original and present operating conditions, Howden conducts a diagnostic of the installation.

First inspection in site consists in making a global statement of components wear without any dismantling.

Howden considers real operating conditions, technical upgrades, regulations applicable to prepare the revamp project.

Compressor performance calculation validation is followed by a faisability analysis handled by Howden technical and industrial organisations before project is proposed.

Compressor installation revamp takes place at a agreed period defined as the most appropriate with the site operators.

Some projects result on major modifications taking in consideration new operating conditions, and particular site challenges. Project will then be treated as a Howden retrofit project going through an in depth engineering and mechanical validation process.



Typical Process

Chek of package elements

- Safety equipments and pressure vessels
- Valves and automation
- Instrumentation
- Driving elements
- Necessary updates & upgrades

Mechanical audit

- Hydraulic and lubrication circuits
- Connecting parts, crankcase and bearings
- Compression head (Cylinder bores, Curves)
- Components Upgrade (Valves, Piston rings, Limiters, Compensators...)

Check of regulation aspects

- Safety of operators (Rotating parts, hot spots, Electrical Protection,...)
- Pressure vessels
- Area Classification





1970 H2 compressor revamping



• Dismantling • Cleaning • Expertise • Components control • Compressor rebuilding operation definition matching site operating conditions









Refurbishment of damaged areas
Reassembling of restored and new mechanical components
Change of worn out components
Refurbishment of oil, water and gas circuits
Protection and sand blasting
Painting of the mechanical assembly

• Test of the mechanical assembly •Package pressure test • Technical report and registry of information in manufacturer file • Cleaning, protection, and packing.

Package shipping to site
Package start up in site

Other examples Recip Piston of 1970

Recip Diaphragm of 1970

Hybrid 1980



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