

Overhaul of Oil-free Compressor Crankshaft Assembly



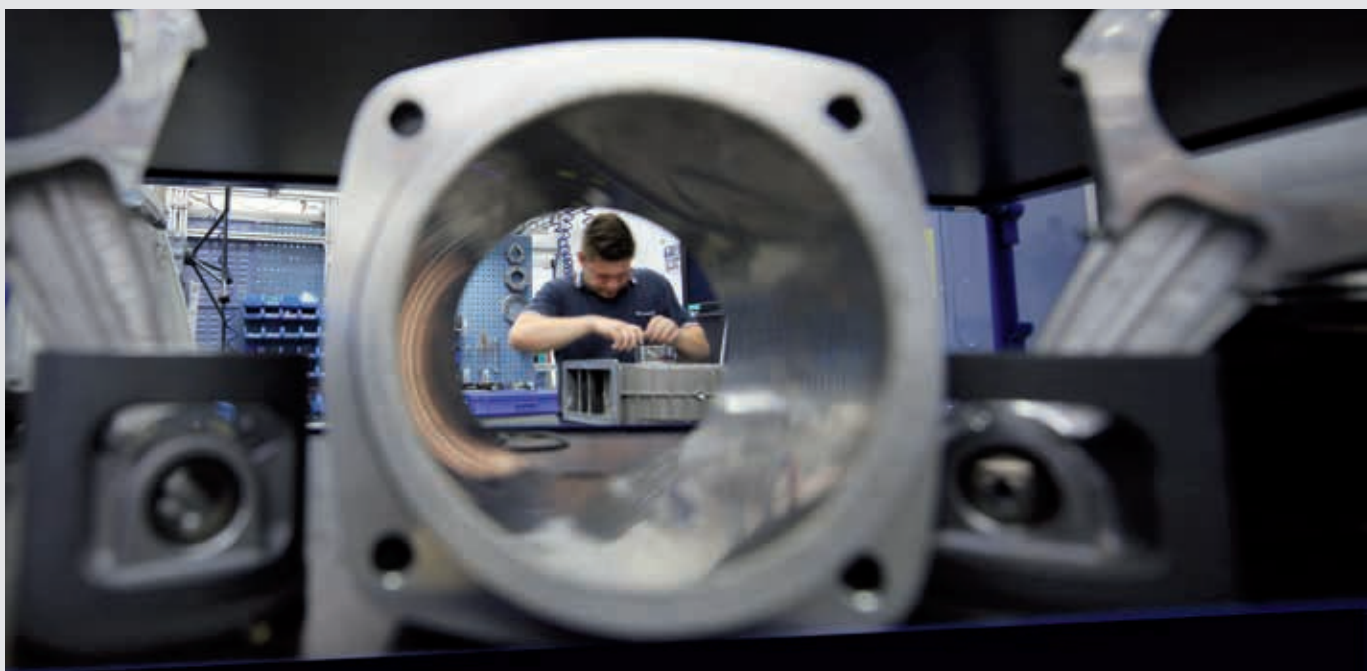
APPLICATIONS

Maintenance and Overhaul of Knorr-Bremse Units



RAILSERVICES
always on track

HIGHER AVAILABILITY THROUGH AN OPTIMAL OVERHAUL SERVICE



SYSTEMS RELIABILITY IS BECOMING AN INCREASINGLY IMPORTANT FACTOR IN THE RAIL

VEHICLE SECTOR. Knorr-Bremse has developed a structured but flexible RailServices program which has a significant impact on the high reliability of products over their entire life cycle. The overhaul of the crankshaft assembly service is an example which can reduce costs and deliver improved vehicle availability.

SERVICE

In conjunction with original spare part kits, Knorr-Bremse offers a general overhaul service for the central element of an oil-free compressor – the crankshaft assembly. This involves restoring the crankshaft and connecting rods to an as-new condition in terms of performance, durability and appearance.

In order to offer this service, Knorr-Bremse has implemented special and automatic assembly equipment to ensure accurate lubrication, assembly and testing processes. The overhaul process is part of the Knorr-Bremse oil-free technology expertise and uses the latest technical standards.

At the end of the process, the crankshaft assembly is ready for full operation until the next major overhaul service. This service of the crankshaft assembly, together with the compressor's regular maintenance and major overhaul spare part kits, ensures a high reliability level of the compressor during its continued use in the vehicle.

CUSTOMER BENEFITS

- Crankshaft assembly overhaul is more cost-effective than a new screw block replacement
- Quality overhaul work ensures high level day-to-day operating reliability
- High availability of crankshaft assembly reduces vehicle downtime
- Final checks of the overhauled crankshaft assembly verifies the performance of the overhauled compressor
- Individual delivery schedule meets customer requirement
- Warranty on all units overhauled by Knorr-Bremse

OVERHAULING OF CRANKSHAFT ASSEMBLY

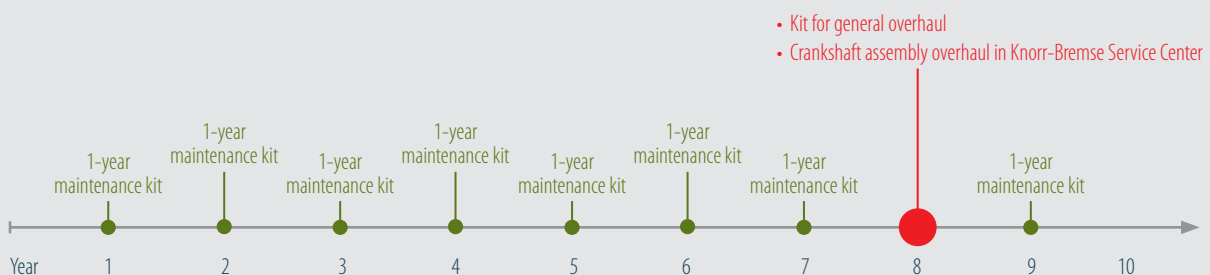


- » 1 Condition assessment on reception
2 Disassembly
3 Measuring of the re-usable components
4 Assembling process
5 Condition on return to customer
6 Special packaging

STEPS FOR CRANKSHAFT ASSEMBLY OVERHAUL

- Disassembly of crankshaft assembly
- Cleaning and re-conditioning of re-usable components
- Inspection and assessment of re-usable parts
- Replacement of bearings and seals
- Final quality check

MAINTENANCE ACTIVITIES UNDER STANDARD CONDITIONS



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