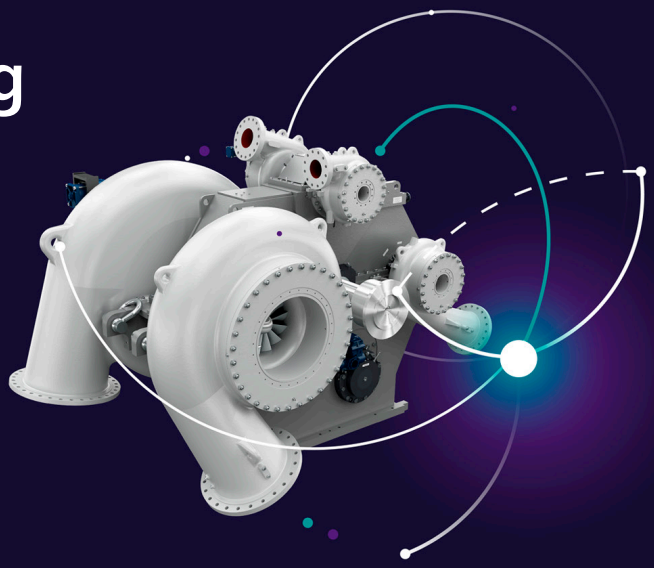
# Making your $CO_2$ story a success – Maintaining Integrally Geared Compressors in $CO_2$ applications



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We have been designing and manufacturing integrally geared compressors since **1949** Today, more than **2,200 units** have been installed globally in a wide range of industries and process applications.

Our integrally geared compressor service portfolio for $CO_2$ applications provides the most efficient compression solution for your process. Whether your application involves the capture and transportation of $CO_2$, the injection for storage or Enhanced Oil Recovery (EOR), the utilization of $CO_2$ e.g. Urea or Methanol production, we will work with you to achieve your economic and sustainability goals while ensuring optimal maintenance support for long-lasting reliability and efficiency.

Our engineers continuously improve the compressor design to reduce the life cycle cost of the equipment. Our integrally geared compressors have been enhanced with several features to improve maintainability, including:

- Increased mean time between inspections - Non contacting seal design and robust API design criteria allow for increased inspection intervals
- Easy maintenance access – Hirth toothing for easy seal access, second top mounted pinions for certain frame families
- Simplified bearing inspections – Gear casing modifications to allow inspection without disassembly of casing or volute
- Robust design – Improved carbon ring seal design for high-pressure stages
- Condition-Based maintenance – Individual stage temperature and performance monitoring
- Minimized shutdown times and risks – Focus on individual stages based on diagnostics during unplanned maintenance scenarios

The separation of individual impellers in integrally geared compressor design brings condition-based maintenance to the next level.

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## Compressor Maintenance

With decades of experience in designing and manufacturing $CO_2$ compressors, you can be assured that we have the knowledge and expertise to manage your compression maintenance requirements.

- Extensive experience: As a global OEM, our engineers have years of field experience, ensuring that you receive the optimum maintenance solution for your compression equipment
- Thousands of compressors in operation: We have successfully maintained and serviced thousands of compressors across various industries, making us the supplier of choice for reliability and efficiency
- Worldwide service network: With a global network of skilled technicians and engineers, we are able to provide prompt and efficient support no matter where your operations are located
- Experienced troubleshooters: When faced with complex issues, our team knows how to quickly identify the root cause and implement the right solution to get your operations back on track



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## Remote Diagnostic Services

Availability and reliability are among the most crucial parameters for the economical operation of your equipment. The potential to achieve high reliability doesn't just depend on the performance of the equipment itself; it also relies heavily on efficiently managing operational risks. Our Remote Diagnostic Services (RDS) aim to maximize the availability, reliability, and performance of your rotating equipment and machine trains. Our RDS provides:

- Improved emergency support responsiveness with advanced remote troubleshooting and access to equipment data
- Proactive equipment maintenance recommendations by analyzing historical condition changes to reduce potential operational disturbances and outages
- Operational continuity with proactive advanced remote troubleshooting
- Improved uptime and productivity with fast remote support, troubleshooting, and OEM expert guidance for optimized operation and routine maintenance

## Service Programs

Our Service Programs are tailor-designed based on your operating needs and your compressor long term maintenance requirements.

### Service Program Advantages

- Field Service and Overhauls
  With overhauls planned well in advance, personnel scheduling will be optimized, saving money.
- Reduced Unplanned Downtime
  With greater visibility to the health of your equipment (e.g., RDS, periodic site inspections, and technical support with our engineers) along with a planned maintenance strategy, there can be a substantial increase in your equipment's availability.
- Reduced Operational Cost
  Reduced efforts in logistics, warehousing, inventory, purchasing, tooling, preservation, and other operating costs for your site.
- Spare Parts
  Knowing the maintenance plan of parts for your outages, we can better leverage our supply chain to optimize product lead-time, inventory, & costs.
- Remote Diagnostic Services (RDS)
  Advanced diagnostic tools can help to proactively notify you of operational issues, reducing the risk of unplanned downtime.
- 24/7 Technical Support
  Members of our OEM experienced service team are available for remote support at any hour of the day to help troubleshoot your equipment.
- Dedicated Project Manager
  Single point of contact for all your technical and commercial needs.