

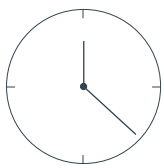
# SERVICE FOCUS

## BORESCOPE INSPECTION

**SERVICE**

### An Easier Inspection Process

A borescope inspection is a highly-effective method for examining internal components of large industrial gear units, without the need for complete disassembly.



Reduce  
Downtime



Advanced Visual  
Inspections



Conditional  
Monitoring

## ➤ PREPARATION AND SAFETY

### Safety Checks

- Ensure gear unit and all associated machinery are powered off
- Apply lockout/tagout procedures to prevent accidental activation
- Wear appropriate personal protective equipment (PPE)

### Borescope and Tool Preparation

- Ensure borescope is fully charged and operational
- Select appropriate borescope attachments (e.g., side-viewing or forward-viewing cameras) based on the inspection needs
- Prepare cleaning materials for the borescope and other tools

### Access and Cleaning

- Clean exterior of gear unit to prevent any debris from entering internal components
- Identify and prepare access points for the borescope

## ➤ BORESCOPE INSPECTION PROCEDURE

### Initial Survey

- Insert borescope into the first access point
- Conduct preliminary survey of internal space to orient inspection and identify areas of interest

### Detailed Examination

- Focus on critical components: gears, bearings, shafts, and seals
- Look for signs of wear, damage, corrosion, or foreign objects
- Use borescope capabilities for photographs or videos of any anomalies for further analysis

### Coverage and Documentation

- Ensure all areas of interest are thoroughly inspected
- Document inspection process, noting the conditions of components and any findings
- Store all visual documentation systematically for record-keeping and further analysis

## ➤ SPECIFIC COMPONENT FOCUS

### Gears

- Check gear teeth for surface wear, pitting, cracking, or chipping
- Examine contact patterns on gear teeth to gauge alignment and wear distribution

### Bearings and Shafts

- Inspect bearings for signs of overheating, corrosion, or spalling
- Examine shafts for scoring, cracks, and overall condition

### Seals and Gaskets

- Check seals for integrity, wear, or degradation
- Look for any evidence of oil leakage or contamination

## ➤ POST INSPECTION

### Review and Analysis

- Analyze captured images and videos for detailed assessment
- Compare findings against expected wear and manufacturer specifications

### Report Preparation

- Compile and share comprehensive inspection report including descriptions, borescope images, and any recommendations for maintenance or repairs

### Plan for Maintenance

- Based on the inspection results, schedule necessary maintenance or repairs
- Prioritize actions based on severity of findings to ensure reliability and prevent downtime

## ➤ CLEAN-UP AND EQUIPMENT CARE

### Clean and Store Borescope

- Properly clean borescope and its attachments
- Store the equipment in a safe, dry place to avoid damage

### Restore Gear Drive

- Ensure all access points are sealed and gear drive is returned for suitable for operation
- Remove lockout/tagout devices following proper procedure

**Ready to start?**

Scan QR code to start a service request



Or call 888-739-3876

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