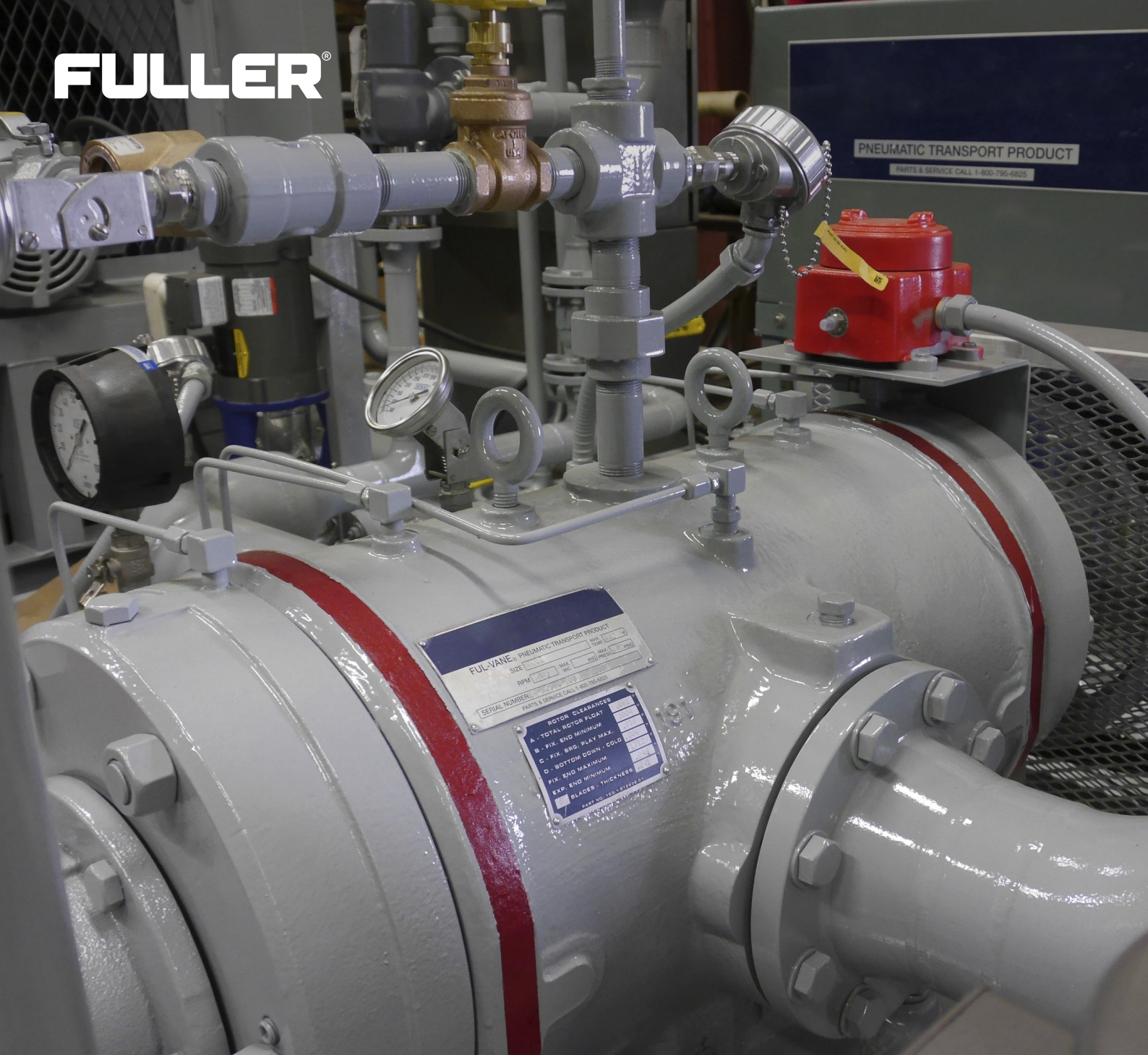


FULLER®



ONLINE CONDITION MONITORING SERVICES

FOR FUL-VANE™ COMPRESSORS

MONITORING AND EXPERTISE TO IMPROVE FUL-VANE AIR AND GAS COMPRESSOR AND AVOID UNPLANNED DOWNTIME

Compressors should provide smooth and reliable compressed air or gas supplies. However, this crucial equipment is complex and features numerous high-tolerance parts. Compressors can wear quickly and can't be rebuilt in the field; they can also quickly lose efficiency once in operation. Our Ful-Vane compressors are designed to tackle these challenges, delivering minimal wear and maintenance, long service life, and lower energy consumption than other compressors on the market. Add our online condition monitoring services (OCMS) into the mix, and you have a credible recipe for long-lasting, high-efficiency compressor performance.

Our OCMS for compressors highlight issues before they become a problem. Multiple sensors installed on your compressor send information to our Global Remote Service Centre. We continuously monitor the equipment for process abnormalities, part failures, and other issues, with specialists always on hand to recommend corrective action and help optimise your compressors' performance.

KEY BENEFITS

01

Increase uptime
and output.

02

Gain fuel and
power savings.

03

Lower labor costs by
transforming unplanned shutdowns
into planned ones.

04

Extend equipment lifespan with
improved preventive maintenance.

05

Reduce premium costs and services
by having the right spares on
site at the right time.

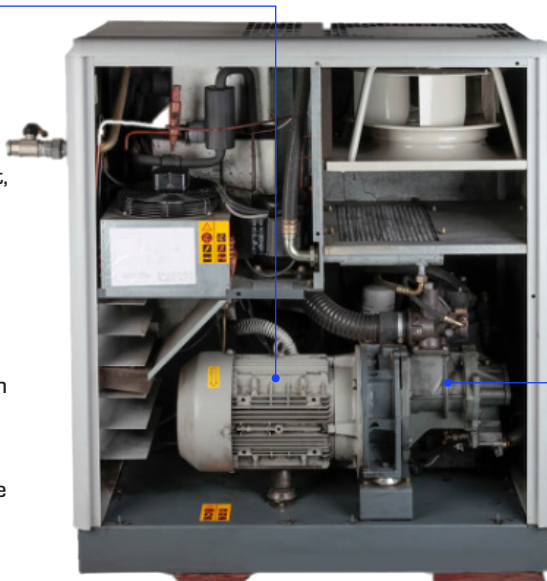
06

Return of investment:
3 months

FUL-VANE™ COMPRESSOR

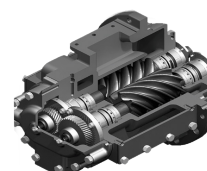
Motor

- Rotor failure: broken/cracked rotor bar, rotor imbalance, loose rotor, rotor bow
- Bearing failure: subcomponent, rotational looseness, lubrication problems, cocked bearing, structural looseness
- Stator failure: voltage imbalance, eccentricity, soft foot, phase loss, insulation and windings problems
- Misalignment
- High/low bearing temperature



Compressor

- Lubrication problems.
- High bearing temperature.
- Broken reeds, rods, or crankshaft
- Exceeding pressure limits.



The OEM expert advantage

Many providers offer to monitor your equipment, but do they truly understand your Ful-Vane compressor as those who build them know them? At Fuller® Technologies, we have decades of experience installing, troubleshooting, maintaining, and optimising our compressors. We have integrated that OEM experience and insight into our OCMS. So, while others tell you what to worry about, we advise you how to solve recurring problems and enhance reliability. This includes extensive root cause analysis to prevent minor issues from escalating into major problems.

After all, your success is our success. Our OEM expert advisors support and coach your maintenance personnel to achieve excellence, delivering optimised maintenance planning and effective maintenance procedures.

A comprehensive monitoring package

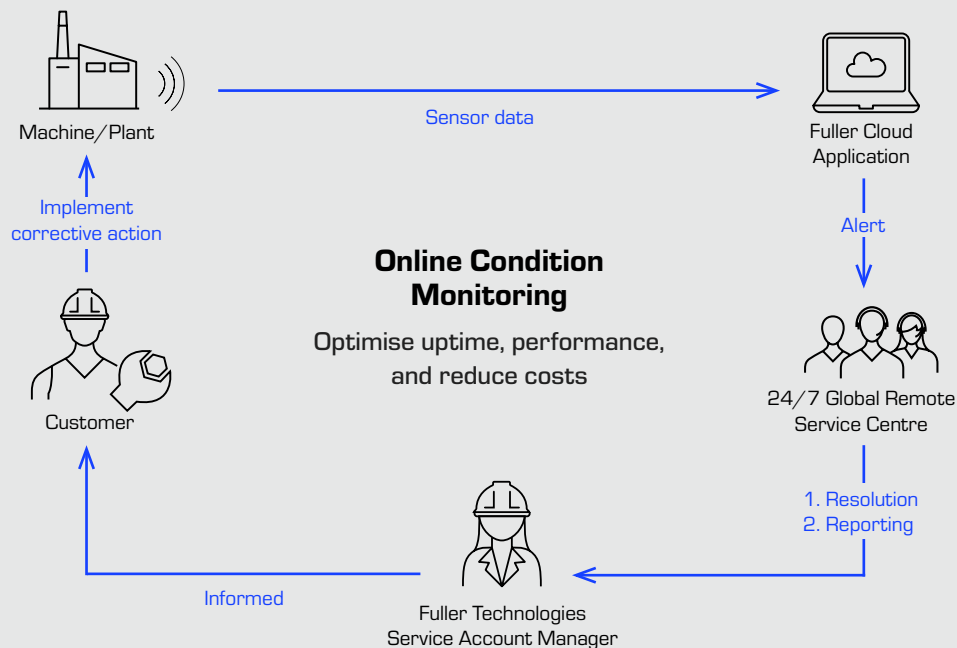
Our OCMS use existing control system signals and additional monitoring systems, such as vibration,

optics, image processing, electromagnetic, ultrasonic, and oil analysis, to detect a range of abnormal conditions and component failures, delivering continuous insight into your compressor's status.

Implementing OCMS

A Fuller project manager will oversee the delivery of any additional hardware required for OCMS to your site. Your maintenance team will usually be able to install the sensors themselves; however, we can offer installation as an optional extra. After the Health and Usage Monitoring System (HUMS) are installed, we will come to and perform commissioning of the HUMS. Then the project manager hands over to a dedicated service account manager, whose job is to be your maintenance department's best friend: the person they go to when they need help. They will initiate and drive your OCMS to deliver your KPIs, ensuring you receive optimal value.

HOW DOES OCMS WORK?



Signals from monitoring systems installed on your equipment are sent securely via the Cloud to our Global Remote Service Centre. Here, your equipment is monitored continuously, and our expert advisors are notified of any alarms/events. These experts will further analyse the data and relay our recommended preventive or corrective actions to your maintenance team. Your customer success manager will always keep you informed, ensuring a timely response to any abnormalities to avoid escalating problems.