



Condence monitoring concept: Compressor

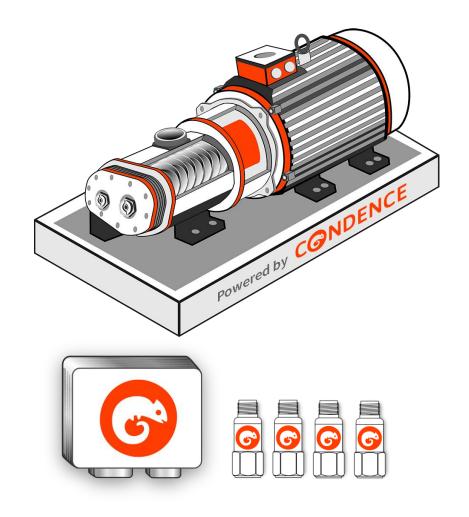






Condence monitoring concept: Compressor

Holistic view of compressor monitoring metrics



Examples of monitored metrics in a compressor

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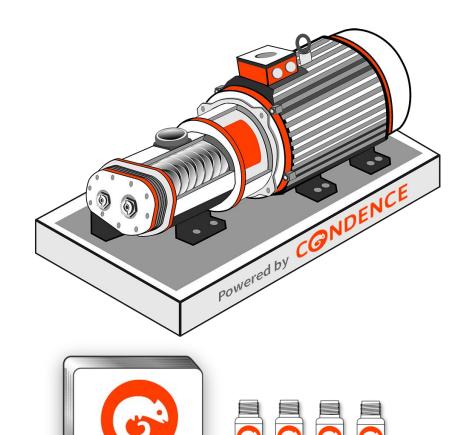
- Vibration
- Oil
- Temperature(s)
- Pressure(s)
- Peak current
- Activity reporting (running times & periods)
- Pressure/Flow

What can we detect by monitoring these metrics?

- Bearing failures
- Mechanical
 - Imbalance, Misalignment and looseness
- Oil condition
- Oil particles (signs of wear)
- Temperature changes
- Performance decrease
- Changes in power consumption
- Running times, optimization of asset use

Condence monitoring concept: Compressor

Monitoring richest health metrics





Uses IEPE sensing technology to capture high frequency vibration Wide frequency bandwidth translates into time, time to react

Flexibility over complexity



Compressors come in different types, shapes and design which sets special requirements for condition monitoring. Condence's capability to combine methods (e.g. vibration & oil analysis) and adjusting analyses from the cloud makes it perfect for compressor monitoring.

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Continuous & online

Based on continuous sampling (e.g. every 5 min) and edge computing technology Maximised time to react even with fast evolving failures



Eliminating surprise / risk

- Unplanned work is more expensive
- Unplanned downtime is expensive

Enable condition based maintenance



Decisions and maintenance based on actual asset condition

- Know when you need to change the oil
- Know when you need to add lubricant to bearings
- Remove unnecessary manual work (inspection & repairs)
- Minimise human error via automatic alarms and data availability

Monitoring view: Default dashboard structure

Status Map

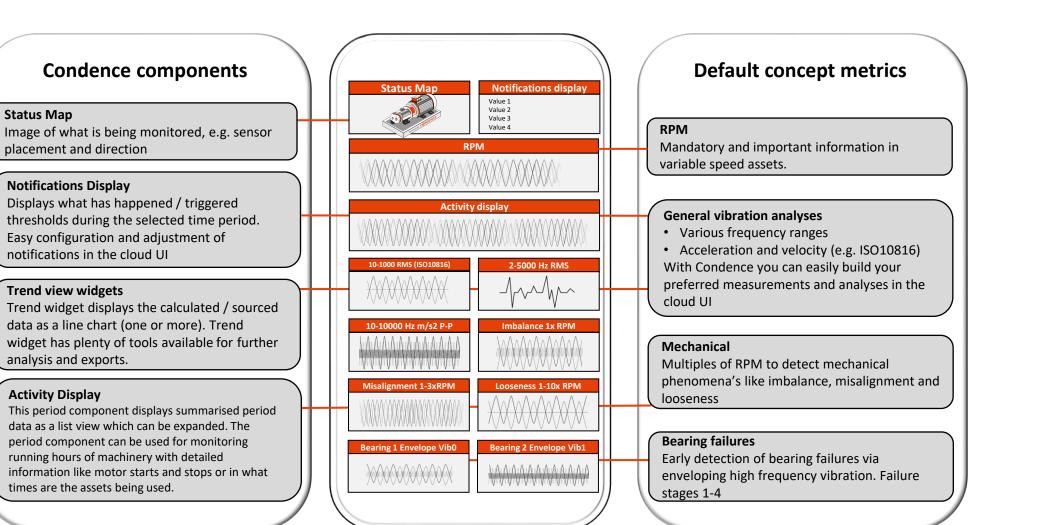
placement and direction

Notifications Display

Trend view widgets

analysis and exports.

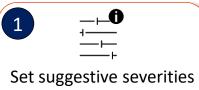
Activity Display



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Condition based maintenance

Create suggestive notifications



and thresholds for them

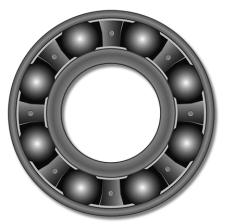


to trigger workflows

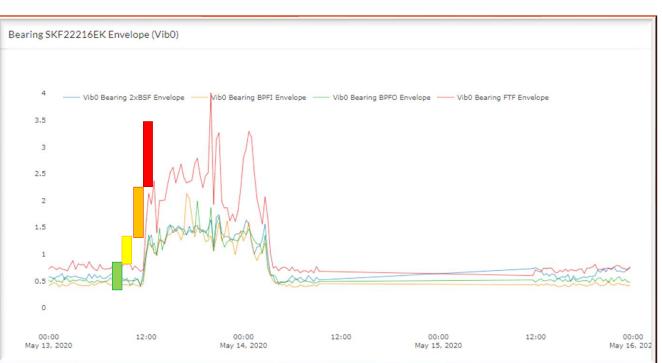




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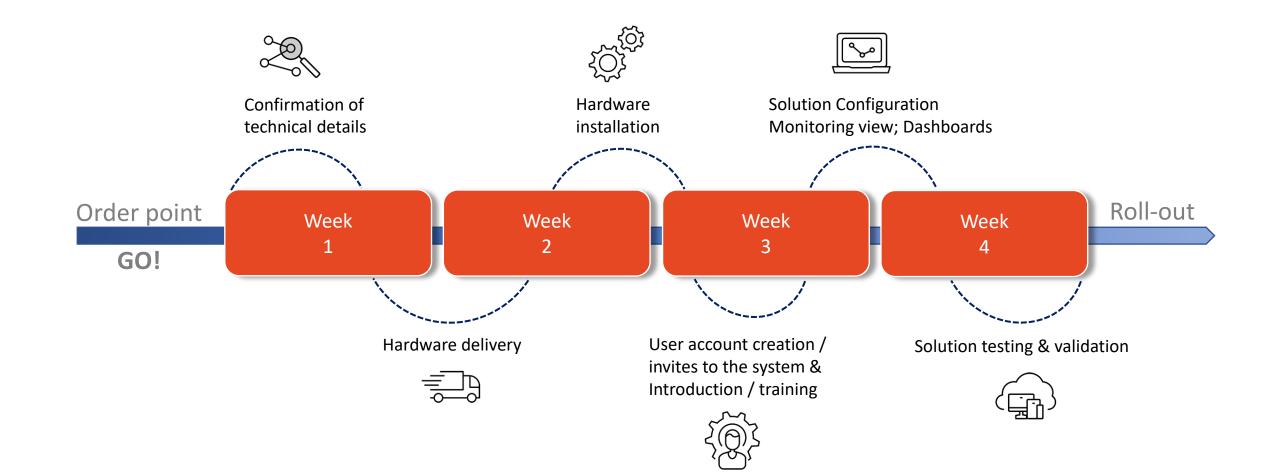


Maintenance action needed Plan for bearing check and lubrication Follow elevated vibration levels Normal vibration range



Delivery timeline







Read more at: <u>condence.io/condence-compressor/</u>

Condence is a product of Distence Oy

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