

# CONDITION MONITOR

AN OPTION ON THE  
MPAC iMi DISPLAY.



By predicting upcoming maintenance needs up to six months ahead you are in control of your service intervals. This wear oriented maintenance leads to optimal performance of the machine parts so that the product quality is always at its maximum level.



### What does it do?

The condition monitors constantly check the condition of the machine components to warn well before they cause issues. This way wear parts like suction cups or nozzles are replaced in an early stage preventing even the smallest dips in the production quality.

This will lead to:

- Longer machine availability
- Better product or process quality
- Wear-orientated, plannable and longer service intervals

The monitor system is data-driven and works completely inside the machine; this means that no cloud connection is needed. All the recorded machine data is stored in a secure local database. This ensures control of the generated data and prevents security issues related to an internet connection.



### How does it work?

Every moving part in the machine has multiple measure points, from amount of times used, characteristics in motion, duration or the amount of stress it receives. In a typical machine more than 200 of the measure points are monitored for changes. When they do, the system calculates the time needed to pass a critical level. Additionally a sensor pack is installed that monitor the environment conditions and machine vibrations. This sensor data complement the assessment of the machine condition and delivers a powerful prediction. If needed the machine warns the production crew for pending issues well before they happen. Allowing them to maintain the machine performance at the highest possible level.

### Recap:

The system increases the machine availability by preventing uncontrolled stops. Constant measurements in the machine scan for abnormalities and warn operators for problems or required maintenance before it is needed. The required data logging happens local in the machine without a cloud connection, so you remain in control.