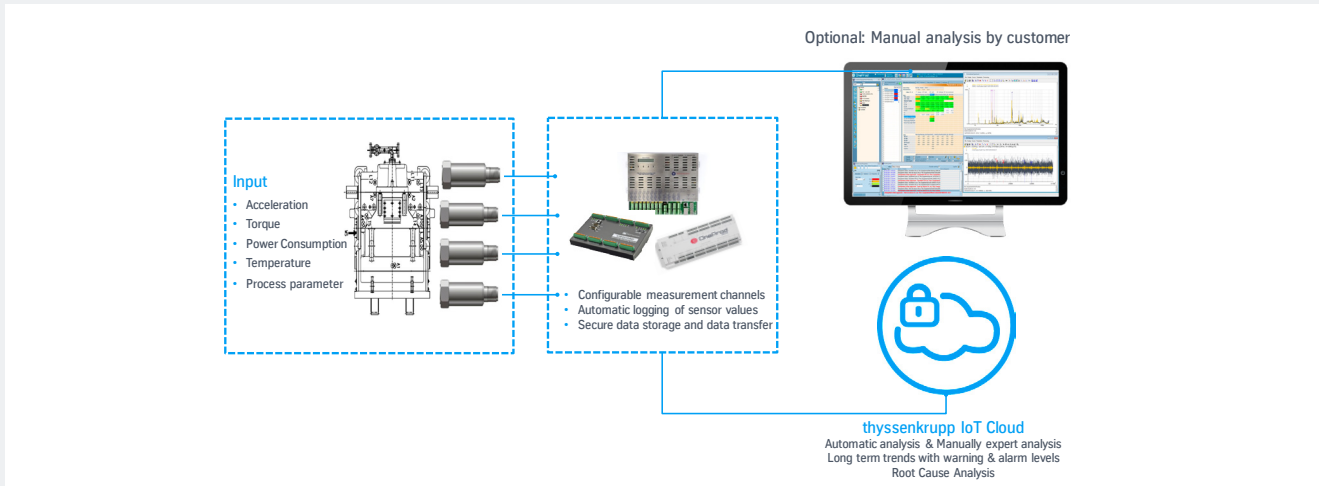


# Condition Monitoring



## Your holistic machine view

thyssenkrupp Polysius offers continuous monitoring of your gearbox - taking process and machine details into account. The detection and indication of failures, malfunctions, wear & damages in your gearbox in due time will avoid unplanned downtimes.

The Condition Monitoring System is an automated system developed to detect imminent malfunctions and damages on certain equipment by high frequency data monitoring and automatic data evaluation. It monitors the gears and the bearing of the gearbox with high frequencies. In case of possible failures, the system generates failure information automatically.

In addition, process data are submitted and can be evaluated by our domain experts. This will lead to a better remote service support. Root cause analysis will be possible and recommendations can be given.

Full service is available for all big gearboxes

Deliverables are:

- Regular reports about the gear box with recommendations
- Warnings in case of malfunctions or critical data within short notice

Further services are available such as:

- Regular reports on the process with domain experts recommendations
- Machine protection system
- Advanced machine control (also AI based)

## Your service advantages

- More transparent operation
- Detection of malfunctions
- Detection of fatigue- and wear related deterioration of bearings, gears & other mill components in an early stage
- Breakdown statistics (optional)
- Alarms & warnings minimize follow-up costs & downtime (optional)
- Expert recommendations in form of reports (optional)
- Closer connection between plant operation and tk Polysius experts
- Results of onsite-services (poldrive®, polscan® etc.) can be combined with condition monitoring system

