

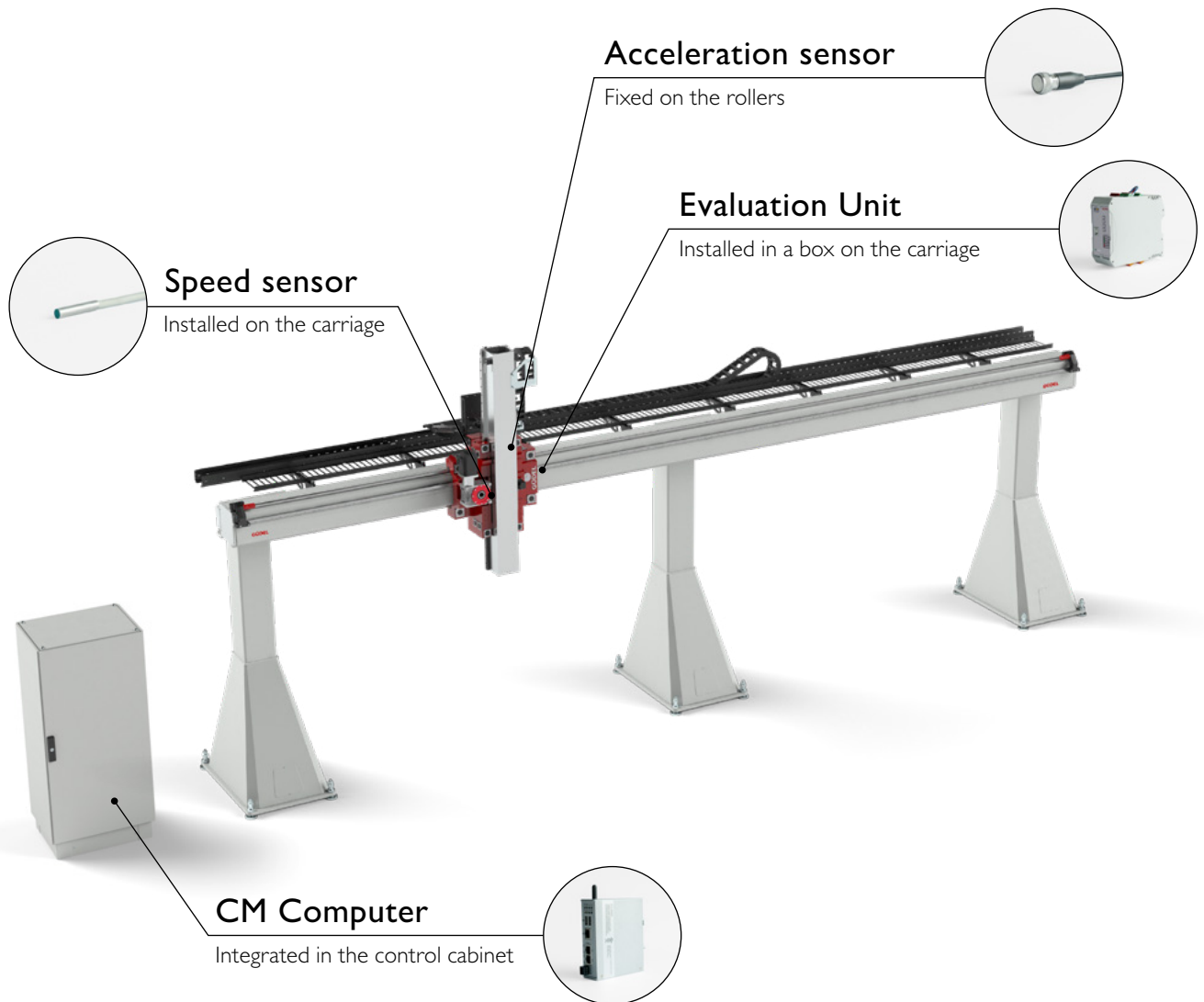
# Condition Monitoring for Linear Tracks and Gantries

To Increase your Overall Equipment Effectiveness



## Condition monitoring

Available for new or existing projects



## Working principle



### Gathering data

- Measuring of vibrations and speed
- Vibrations are detected by acceleration sensors



### Evaluating the data

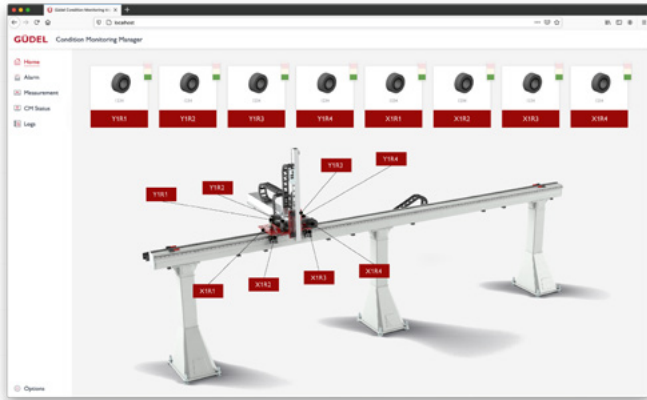
- Analyzing the vibration signals in relation to the axis speed
- Transmitting the data from the evaluation unit to the CM Computer



### CM Computer

- Compute the condition on the dashboard
- Store the gathered data
- Get insights on the historical operation data

## Digital services



### Display status

Compute the condition of the system as a green, orange or red light

### Data base

Automatic storage of the relevant historical trend data in local database

### Log book (logging)

Reporting of alarms generated by the system and documentation of maintenance work



### Visualization

Visualization of historical operation data

### Notification by E-Mail

Sending of alert messages via email if threshold value is exceeded



Scan to visit website  
<https://www.gudel.com/condition-monitoring/>

## Standard packages

Easy integration

### Option 412a

Standalone package

**Scope:** Sensors, Evaluation Unit, CM Computer & GUI

**Interface:** CM Computer

**Communication:** TCP/IP Database, MQTT & OPC-UA

**Technology stack:** Docker, SQL & Linux

Available for: EP, ZP, FP, CP, TMF & TMO



### Option 412b

Integrated package

**Scope:** Sensors, Evaluation Unit & GUI

**Interface:** Evaluation Unit

**Communication:** TCP/IP Database, MQTT & OPC-UA

**Technology stack:** Docker, SQL, Linux & Windows

Available for: EP, ZP, FP, CP, TMF & TMO



## Value proposition



### Avoiding unexpected production failure

Production line breakdowns can be prevented by continuously monitoring the condition of the equipment, which will result in a high machine availability.

Keep running the manufacturing line enables a higher production capacity in the same time.



### Ensuring production quality

Monitoring the condition of relevant components helps to ensure production quality.

Manufacture of scrap parts can be avoided, resulting in cost savings.



### Improving maintenance performance

Condition monitoring guides efficient maintenance planning which is more effective and requires less resources.

Costs can also be saved by only replacing parts which are worn out rather than just replacing them on a fixed schedule.



Scan to visit website  
[https://www.gudel.com/  
condition-monitoring/](https://www.gudel.com/condition-monitoring/)

Güdel AG  
Gaswerkstrasse 26  
4900 Langenthal  
Switzerland  
Phone +41 62 916 91 91  
[sales.robotics@ch.gudel.com](mailto:sales.robotics@ch.gudel.com)  
[gudel.com](http://gudel.com)