



We pioneer motion

## Reliable monitoring around the clock – with OPTIME from Schaeffler

Schaeffler uses the OPTIME monitoring solution not only for customers such as [Stora Enso](#) or [Finnsementti](#), but also in its own plants. OPTIME was first installed in the supply systems at the [Schweinfurt plant](#). Many plants have already installed OPTIME. In the future, all Schaeffler plants worldwide will benefit from the monitoring solution. Find out more on the following pages.



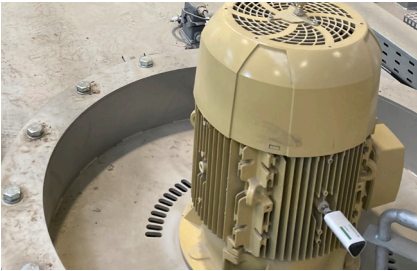
Schaeffler OPTIME wins  
– the Red Dot Design Award 2021  
– Industry 4.0 Innovation Award 2020



**Monitoring motors in milling machines 03**

**€ 49,152**

Savings per year after deduction of acquisition costs and assuming only one downtime per year.



**Monitoring motors of heat treatment machines 04**

**€ 46,000**

Savings per year



**Monitoring pumps in a central supply systems 05**

**€ 18,161**

Savings per year after deduction of acquisition costs and assuming only one downtime per year.



**Monitoring motors in central systems 06**

**€ 17,953**

Savings per year after deduction of acquisition costs and assuming only one downtime per year.



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# Monitoring motors – Schaeffler plant in Brasov



Milling Machine

## Monitoring motors in milling machines

Abrasion and breakage are frequent causes of motor failure in milling machines. To prevent unplanned downtime, six OPTIME sensors on a critical milling machine and a total of 100 sensors on the 38 milling and grinding machines were installed.

## Expected benefits

- Reduced unplanned downtime
- Improved maintenance planning
- Less resulting damage

# € 49,152

Savings per year after deduction of acquisition costs and assuming only one downtime per year.

## OPTIME is for sure a big step forward in Condition Monitoring Solutions.

**Gad Pop**  
Maintenance Manager, Brasov



OPTIME on motors of an emulsion pump



OPTIME on a motor of a hydraulic system



OPTIME on motors of an emulsion pump



# Monitoring motors – Schaeffler plant in Brasov



Plant in Brasov, Romania

## Monitoring motors of heat treatment machines

High temperature and continuously functionality are the main factors for the excessive wear of the motors. In order to prevent unplanned downtime, around 7 OPTIME sensors have been installed on the heat treatment machines with a total of more than 200 sensors installed on machines in industrial plant 2.

## Expected benefits

- Reduced unplanned downtime
- Zero scrap do to breakdowns
- Improved maintenance planning
- Less resulting damage

€ 46,000

Savings per year after deduction of all costs

**Smart and intuitive,  
Schaeffler OPTIME,  
our newest partner in  
predictive maintenance.**

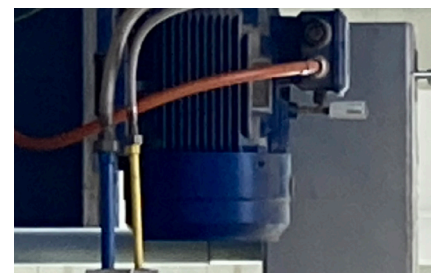
**Alexandru-Catalin Moga**  
Maintenance Manager of industrial plant 2, Brasov



OPTIME on a mixing motor



OPTIME on a cooling motor



OPTIME on a fan motor

# Monitoring pumps – Schaeffler plant in Skalica



Plant Skalica

## Monitoring pumps in a central supply systems

Abrasion and breakage are frequent causes of pump failure in the central oil supply system. To prevent unplanned downtime, 150 OPTIME sensors were installed on the pumps in the 14 central supply systems at Skalica.

## Expected benefits

- Reduced unplanned downtime
- Improved maintenance planning
- Less resulting damage

€ 18,161

Savings per year after deduction of all costs

**OPTIME is a perfect solution for entrance to the professional Condition Monitoring Systems with a great price and value ratio.**

Marek Zezula

Project Manager Maintenance – Digitalisation, Skalica



OPTIME on oil supply system pumps



Central oil supply system



OPTIME on main oil supply system pumps



# Monitoring motors – Schaeffler plant in Kysuce



Plant in Kysuce

## Monitoring motors in central systems

Abrasion and breakage are frequent causes of motor failure at the central supply system. To prevent unplanned downtime, 200 OPTIME sensors are installed on the various units such as the motor, pump or coupling in the 17 central supply systems of Kysuce.

## Expected benefits

- Reduced unplanned downtime
- Improved maintenance planning
- Less resulting damage



€ 17,953

Savings per year after deduction of all costs

**We have an overview  
of the condition of  
strategic facilities.  
Perfect IoT device.**

Filip Krakovský  
Maintenance Project Manager, Kysuce



OPTIME sensors on KSB motors



Close view: OPTIME sensors on a KSB motor



Gateway installed on the wall

# Schaeffler OPTIME



OPTIME - Plug. Play. Predict.

## High-scale monitoring at the lowest cost

OPTIME from Schaeffler allows for comprehensive condition monitoring that is both easy and affordable. Thanks to its simple plug & play installation, OPTIME allows you to start monitoring hundreds of rotating machines in just a few hours.

## Benefits

- Easy installation of OPTIME solution.
- Greater safety for employees, as access to hard-to-reach machinery is no longer required with the digital service.
- Wireless solution
- More efficient planning of maintenance measures, staff and spare parts supply.
- Unplanned downtimes are reduced to a minimum.

## Performance data for the OPTIME sensors 3 and 5

Vibration bandwidth	OPTIME-3: 2 Hz – 3 kHz OPTIME-5: 2 Hz – 5 kHz
Calculated parameters	7
Sensor commissioning	NFC (Near Field Communication)
Communication	Wirepas Mesh (2.4 GHz ISM band)
Measurement cycle	Parameters: every 4 h Time signal: every 24 h

## OPTIME wins the Red Dot Design Award 2021

With its innovative OPTIME condition monitoring solution, Schaeffler ranks among the list of well-known companies that have won the „Red Dot Award“.

In the “Smart Product” and “Industrial Design” categories, the jury chose OPTIME to receive the award, confirming the outstanding product design, functional composition and innovativeness of Schaeffler’s digital service solution.



## OPTIME wins the Industry 4.0 Innovation Award 2020

The perfect implementation for Schaeffler’s innovative condition-monitoring solution OPTIME was confirmed with the winning of the „Industry 4.0 Innovation Award“.

This was the fifth time that the award was presented by VDE Verlag in collaboration with the German Electrical and Electronic Manufacturers’ Association (ZVEI) and the Industry 4.0 Standardization Council.

