

Permanent installation and  
mobile measurements for  
power plants and industry

# Vibration monitoring and analysis with STUDIS-SE

STUDIS-SE – the modern and flexible vibration diagnosis system for measurement, monitoring and analysis of machine vibrations.

- Prevent machine damage
- Reduce maintenance costs
- Safe and economical operation of your machine

With STUDIS-SE you are choosing the top seller among diagnostic systems for power plants in EU. The innovative operation and unique data resolution makes STUDIS-SE the perfect tool for vibration monitoring and condition based maintenance.



**Siempelkamp**

NIS Ingenieurgesellschaft

## STUDIS-SE Hardware

- High flexibility through modular design
- Reliable, non-reactive on other systems
- Plug-compatible replacement of existing monitoring systems by compact Data Collection Unit (DCU)
- All common interfaces for the integration of process values from the control system available (e.g. OPC DA, PCS 7, PI, PBS30, Symphonie, Modbus-TCP, Profibus, ...)
- Components „Made in Germany“
- 16 bit resolution
- Frequency range 0 – 13 kHz



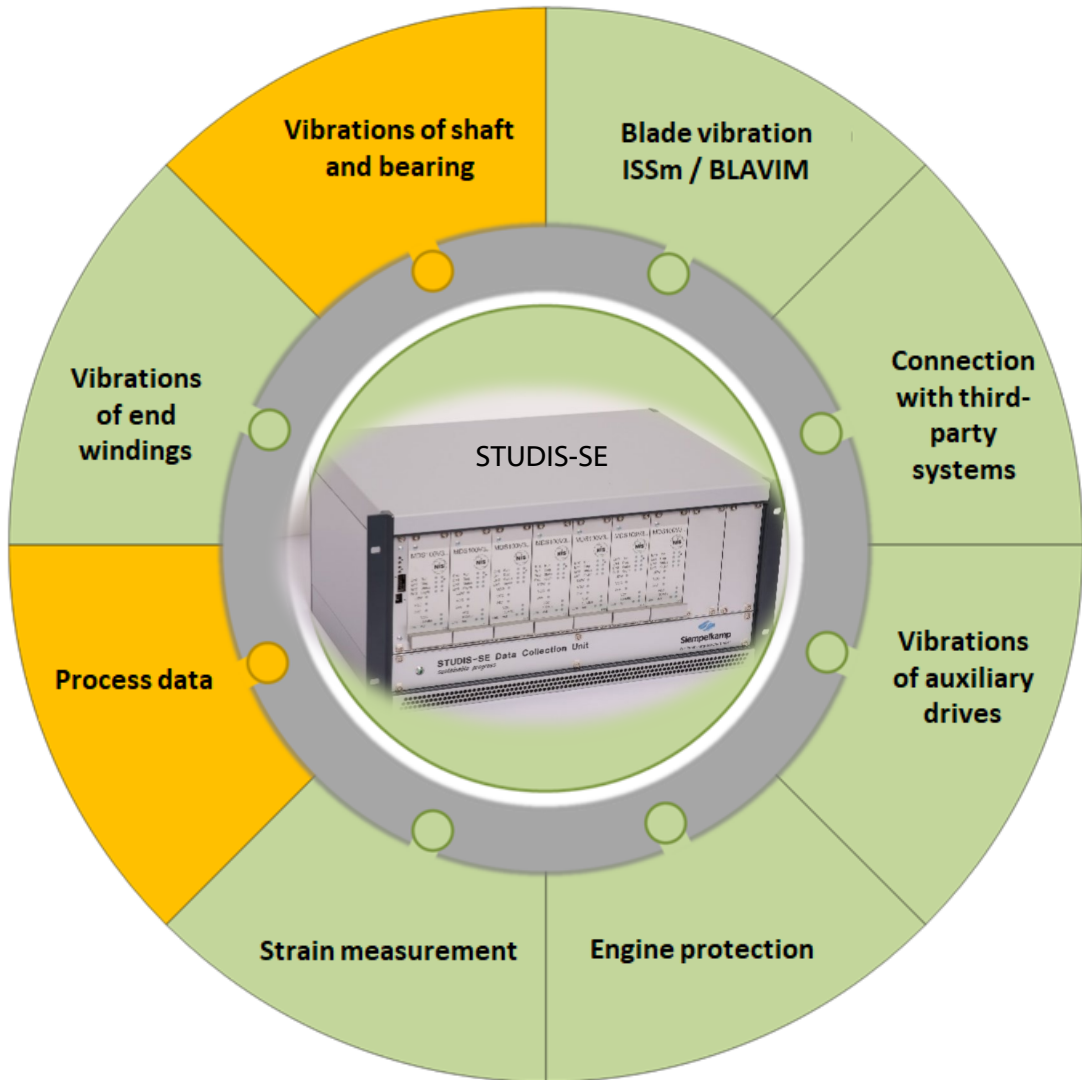
Compact STUDIS-SE DCU

Through the clever networking of galvanically decoupled acquisition units, STUDIS-SE enables you to record vibration data decentral close to your machine as well as central in the control room.



STUDIS-SE permanent installation

## STUDIS-SE modular design



All modules can access the central core of STUDIS-SE. The structure of the modules is based on the function groups of your machine. Modules from other manufacturers' systems can also be integrated. The modular structure of the systems is an ideal basis for planning the investment as well as for later extensions. The interfaces are open and comply with current standards. The modular and scalable STUDIS-SE:

Data acquisition

Data qualification

Visualization

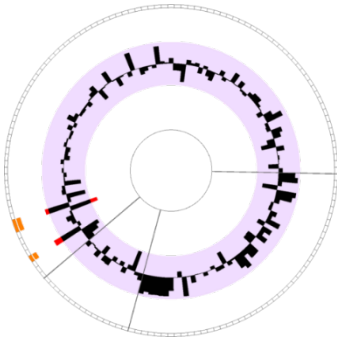
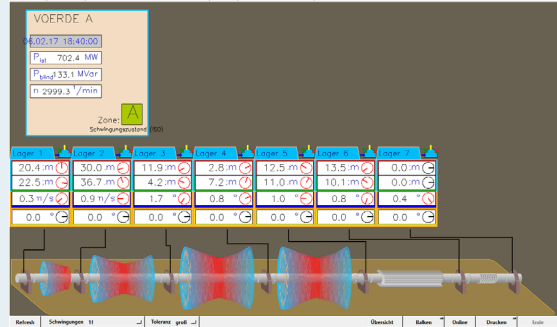
Monitoring

Analysis

Diagnosis

### Software

- Intuitively operable
- Tailor made solution for your machine
- Windows Server System of the newest generation



### Monitoring

- Intelligent monitoring with dynamic tolerances and highly compressed information display "magic eye".
- Start up / run down analysis
- Notification system via email or messenger

### Vibration analysis and diagnosis

- High quality analysis functions: FFT, Orbit, Polar, Bode, ShCL, ...
- Specific values and process parameter: Trend, X/Y-Plot, ...
- Support from our vibration experts 24/7



Siempelkamp  
NIS Ingenieurgesellschaft mbH  
Industriestrasse 13  
63755 Alzenau

Tel: +49 6023 40693-0  
Fax: +49 6023 40639-970  
nis.alzenau@siempelkamp-nis.com

Intelligent engineering  
for future generations.