



SIEBTECHNIK TEMA



# ST ReAM

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## Your screening machine has a lot to tell you - just take a look.

SIEBTECHNIK TEMA offers with **STReAM** an innovative online monitoring tool for the optimisation of preventive maintenance & downtime planning.

Screening machines are part of the key equipment in many plants. They classify, dewater and thus ensure the quality of products and make a highly efficient contribution to successful plant operation.

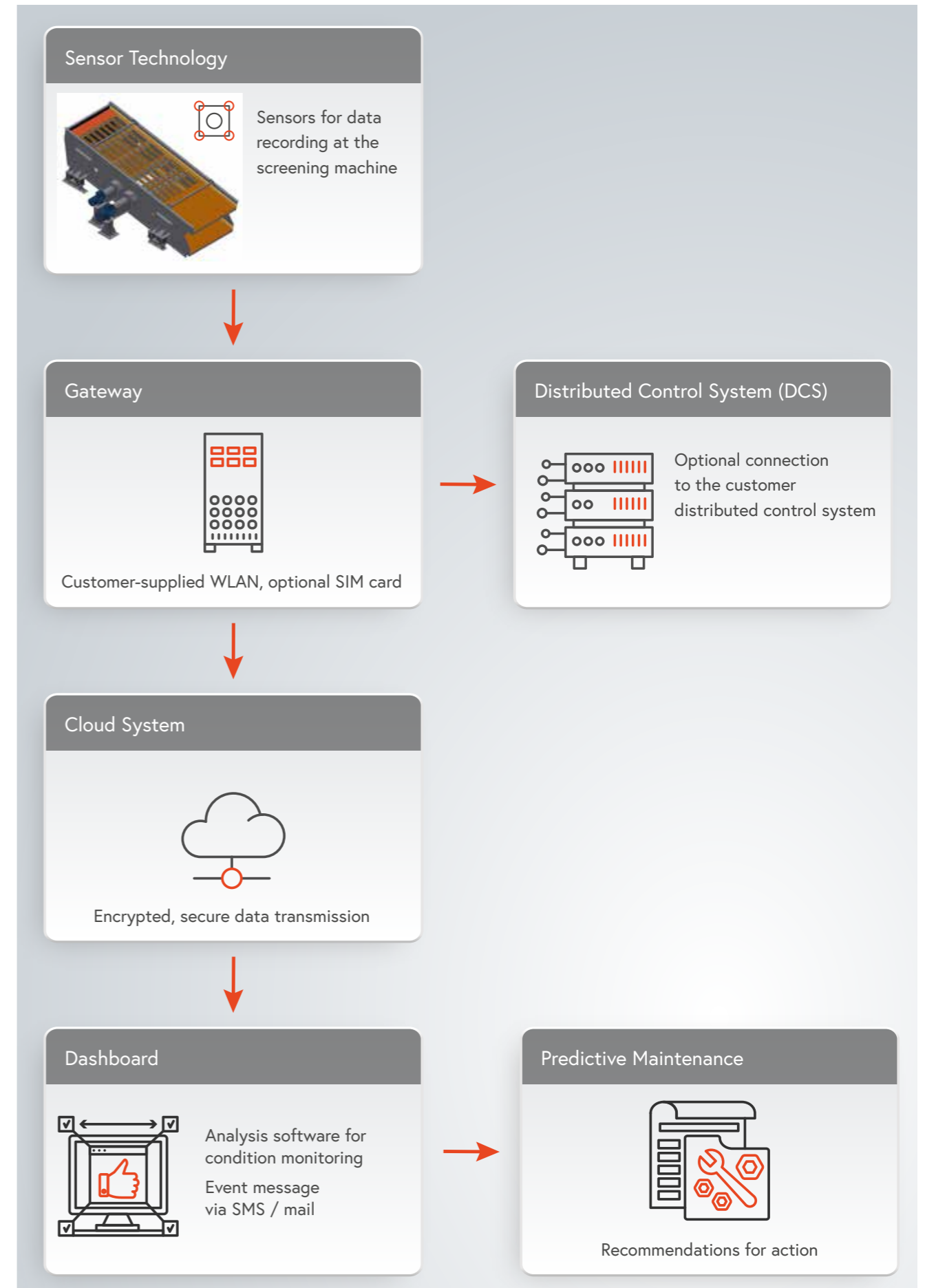
Reliable production is a top priority for our customers and therefore also for us. Irregularities in operation must be detected and corrected as quickly as possible before malfunctions or machine failures threaten.

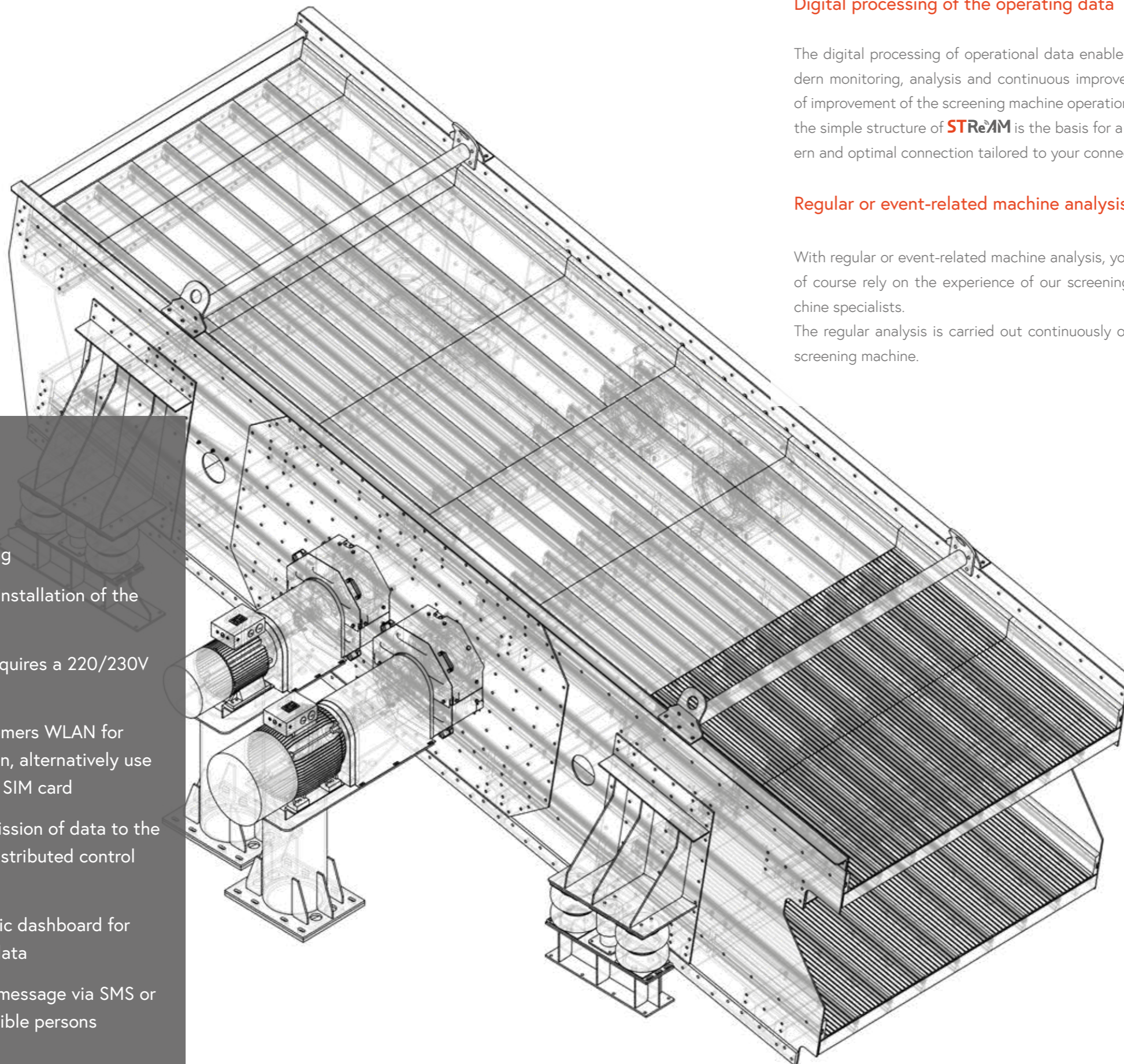
Here we have been supporting our customers with our know-how and practical experience for decades. Observation of the screening machine operation and early detection of possible problems are indispensable steps today in order to be able to make timely decisions and decisions in good time and to be able to take the right measures.

In many cases, wired measuring technology is already in use for continuous monitoring of the machine operation, e.g. by means of overflow sensors or measurement of the power consumption. However, comprehensive and at the same time easy-to-install, continuous monitoring of vibration characteristics and bearing condition is not possible with these known systems for screening machines.

Sensitive sensor technology is required here, which we can realise with **STReAM**.

With **STReAM**, SIEBTECHNIK TEMA offers an innovative and flexible tool for the optimisation of condition monitoring, preventive maintenance and downtime planning and thus to safeguard machine operation and your related production.





## Features:

- ◆ Online monitoring
- ◆ Simple wireless installation of the sensors
- ◆ Gateway only requires a 220/230V power supply
- ◆ Use of the customer's WLAN for data transmission, alternatively use of an integrated SIM card
- ◆ Optional transmission of data to the customer's own distributed control system (DCS)
- ◆ Customer-specific dashboard for monitoring the data
- ◆ Alarm or status message via SMS or email to responsible persons

## Digital processing of the operating data

The digital processing of operational data enables modern monitoring, analysis and continuous improvement of the screening machine operation. The simple structure of **STReAM** is the basis for a modern and optimal connection tailored to your connection.

## Regular or event-related machine analysis

With regular or event-related machine analysis, you can of course rely on the experience of our screening machine specialists. The regular analysis is carried out continuously on the screening machine.

With the event-related machine analysis, we access the data of your screening machine with your consent; the data transfer is simple and absolutely secure.

After analysing the data, we give you a recommendation for action as to whether and which action should be taken.

Nothing stands in the way of preventive maintenance management.

## Design and functionalities

Basically, two different types of sensors are used on the screening machines. Four sensors, ideally mounted in the area of the vibration insulation, reliably detect the vibration frequency of the machine as well as the vibration amplitudes in all 3 axes.

Special bearing sensors record meaningful factors for assessing the condition of the bearing. In addition to temperature, frequencies < 2.5 kHz emitted by the bearing are also recorded. For a double unbalance gearbox with 4 bearings or a drive cell with 2 bearings, only 1 sensor is required in each case.

The collected data is sent to a gateway via Bluetooth and from there uploaded to a cloud provided via a customer-supplied WLAN or an integrated SIM card. The data can also be integrated into a customer distributed control system (DCS). Various bus systems are available for this purpose.

The cloud-based data are processed in an analysis software. The specific and calibrated data of the screening machine are defined here. Irregular values are detected and lead to a change in status.

A chosen, responsible user in your company is informed by SMS or email about the change of state of the previously calibrated values. With a traffic light system, you can quickly and easily recognise the status of your machine. A green condition allows the screening machine to be used and produced without any problems.

## MAKE DOWNTIME PLANNABLE

A change to a yellow state requires analysis and observation of the machine or a component, while the red state signals the need for action.

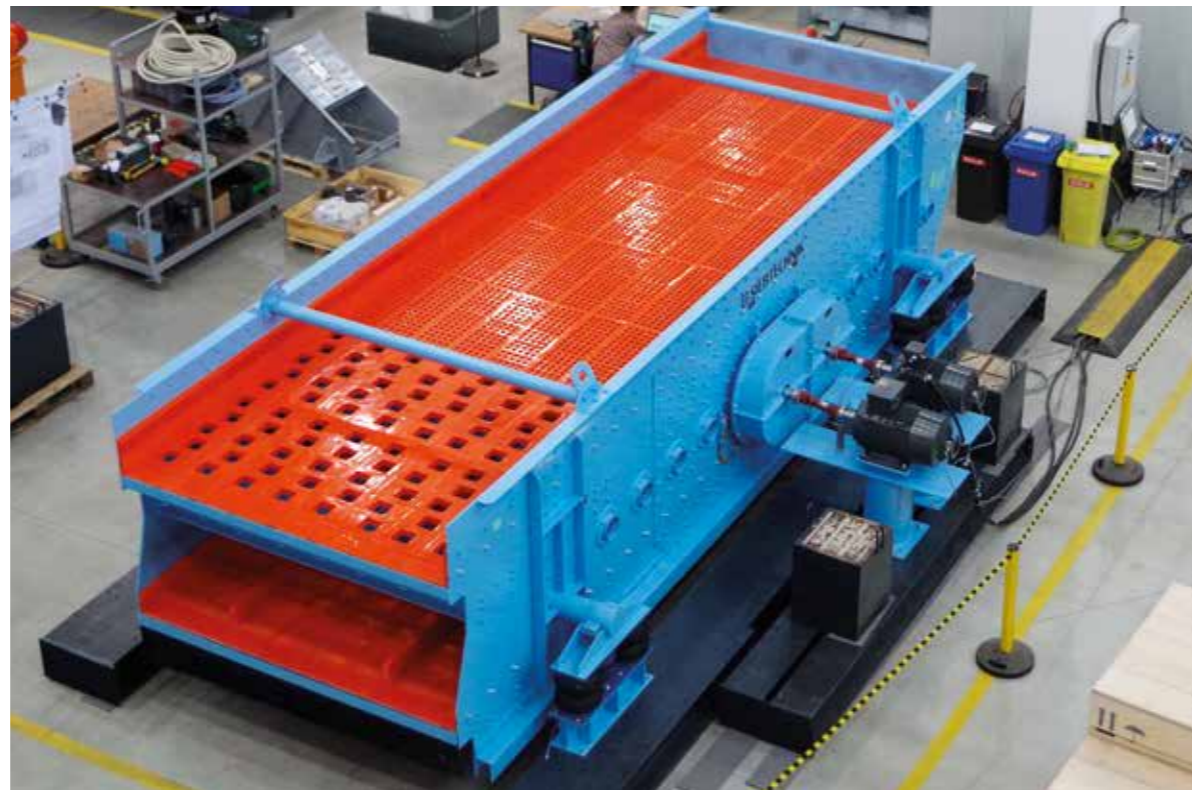
All data are always available for you in an online dashboarding with long-term memory.

### You are the sovereign of your data!

Of course, data sovereignty belongs to you! You retain all rights, titles and interests in your data.

Data are uploaded to the cloud via encrypted transmission paths, using the AWS cloud service.

AWS has certification for compliance with ISO/IEC 27001:2013, 27017:2015 and 27018:2014 standards.





# SIEBTECHNIK TEMA

100 YEARS | TAILOR MADE

1922 - 2022

SIEBTECHNIK TEMA offers an extensive product portfolio for a wide range of industries around the world.

As a renowned OEM & system supplier, our group of companies specializes in mechanical engineering, process engineering, components and services. Customized solutions, precisely tailored to the needs of our customers, have been the key to our success for 100 years.

We are experts in the field of solid-liquid separation and processing of bulk mineral materials – with more than 50 local sales offices and representatives worldwide.

## Our product portfolio comprises:

Automation Solutions | Decanters | Conveyor Chutes | Gas Pycnometers | Sliding Centrifuges | Control Screening Machines | Laboratory Equipment | Sampling Plants  
Sample Preparation | Pneumatic Post Systems | Setting Machines | Screening Machines  
| Screen Scroll Centrifuges | Pusher Centrifuges | Vibratory Centrifuges | Dryers  
Shredding Machines/Plants

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