

Leading Edge Powder Processing Technology

**Gericke**

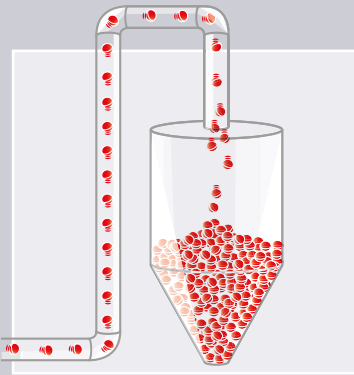
# YOUR GLOBAL PARTNER FOR PRIMARY RAW MATERIALS HANDLING

Systems and components  
for the bulk processing industry.



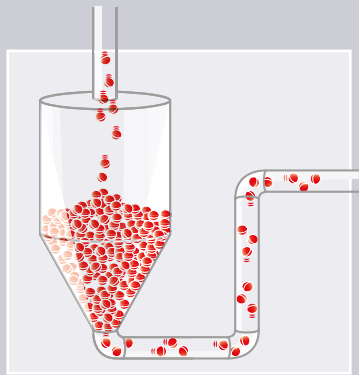
# COMPETENCE IN YOUR APPLICATION

Profit from decades of experience  
in the most demanding applications:



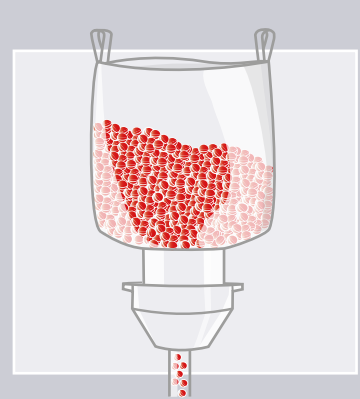
## MATERIAL RECEPTION AND STORAGE

Safe, emission-free and efficient material reception and internal distribution of bulk solids is a prerequisite for economic processing and production.



## CONVEYING

Saving energy and protecting your pipework makes economic sense and can give you a decisive competitive advantage. Our systems transport your products in a product-protecting and reliable manner, using minimal gas while reducing energy costs.



## RAW MATERIAL AND INGREDIENT HANDLING

From small amounts to Bulk Bags, we offer you the right solutions to allow a secure and hygienic introduction of ingredients into your processes, whether they are manual or completely automated.

## COMPETENCE IN ALL SYSTEM-CRITICAL COMPONENTS

Gericke develops and manufactures all key components in-house, for example:



Rotary valves



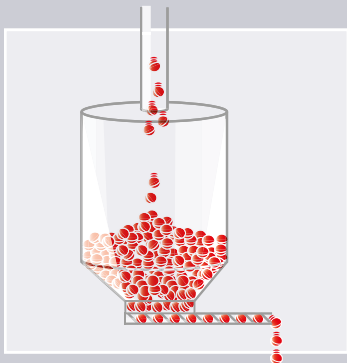
Bulk Bag emptying stations



Sack tipping stations

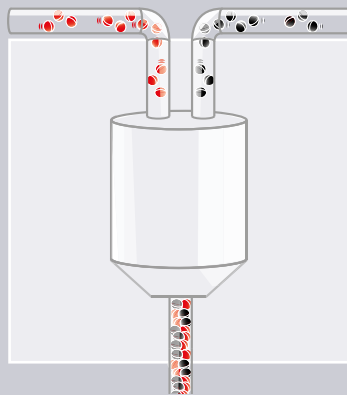


Pneumatic conveying systems



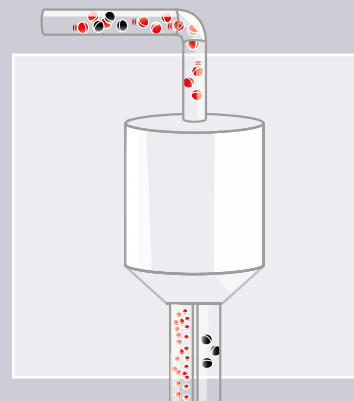
## FEEDING

When feeding, value creation takes place via the precise feeding, measurement and control of the product flow, while recipe management, traceability and quality control are guaranteed at all times.



## DOSING AND MIXING SYSTEMS

Gericke technologies have been setting benchmarks in mixing since 1894. Our mixers produce intermediate and end products of the highest possible homogeneity while ensuring maximum care of the product. The mixers can be used continuously or in batch processes.



## SIFTING AND SIZE REDUCTION

Correct particle distribution, freedom from foreign substances, and ease of handling is essential for optimized bulk material processes.



Gravimetric dosing systems



Batch mixers



Nibblers



Feeders



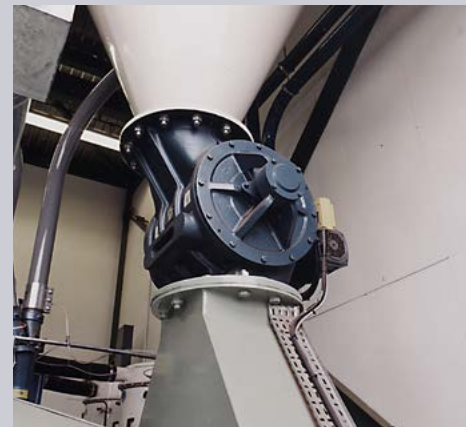
Continuous mixers



Centrifugal sifters



# SYSTEM COMPONENTS FOR HEAVY DUTY AND ABRASIVE APPLICATIONS



Gericke recognizes the challenges being faced in highly demanding industries. Our product specific designs are ready to meet these daily challenges on a consistent basis.



Heavy duty rotary valves



Heavy duty diverter valves



Low wear bends



Cone valves

# MATERIAL RECEIPT AND STORAGE



## Applications

- Delivery of raw materials
- Quality sifting and product calibration
- Silo storage
- Inventory control

## Your benefits

- Automatic plant management
- Surface protection with inert gas overlay
- Safe operation thanks to EX conformity
- Low maintenance costs
- High operational reliability and system availability



Unloading of railway trucks



Truck delivery



Safe handling of bulk bags



# ECONOMIC AND PROTECTIVE CONVEYING



## Applications

- Material removal
- Inline sifting
- Conveying of weighed batches
- Vacuum scales
- Internal supply raw materials
- Forwarding of semi-finished and finished products
- Airlock and flame barriers
- Material management

## Your benefits

- High level of operational reliability and plant availability
- Low air and energy consumption
- Increased plant safety with ATEX conformity
- Lower maintenance expense
- Minimum increase in bulk density and fine fraction



Sender for process feeding



Conveying of fly ash



Diverter valve

# FEEDING AND MIXING



## Applications

- Feeding of additives
- Introduction of fuel
- Multi-component dosing
- Material introduction

## Your benefits

- High product quality thanks to accurate dosing
- Simple control integration
- Very low sensitivity to external interference
- Flexible use due to dynamic range
- Space saving due to compact design
- Seamless integration with few interfaces
- Maximum throughput saves time and energy
- Homogeneous mixing including micro-components
- Optimized start-up and shut-down procedures reduce waste



Feeding of gypsum



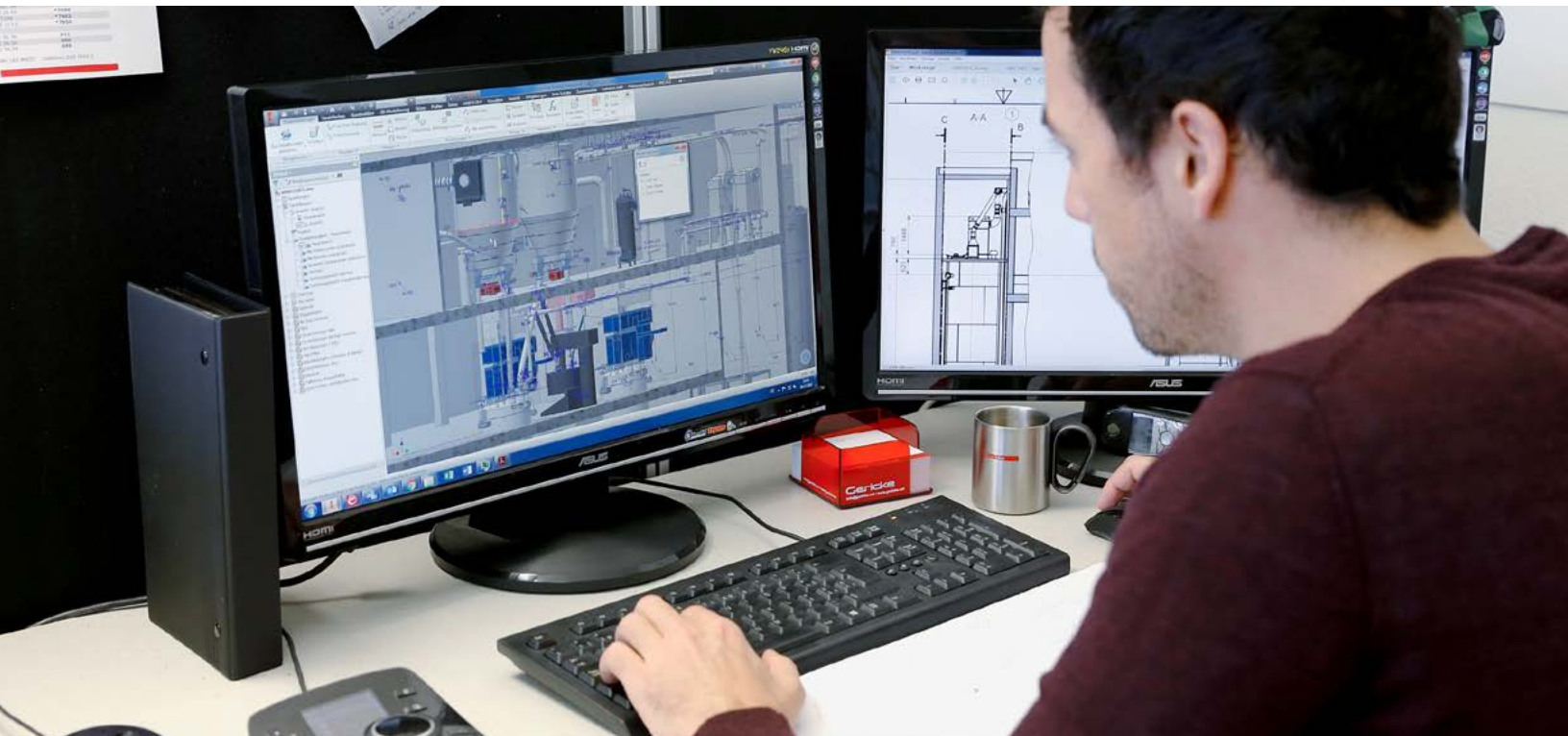
Dosing of activated carbon



Integrated control of weighing and dosing processes



# SAVE TIME AND MONEY WITH COMPETENT PROJECT MANAGEMENT



## Planning phase

During this phase the focus is on the development of the right process solution and the choice of suitable machines.

- New systems or modernization and expansion of existing facilities
- Solution search and evaluation of the possibilities
- Trials and testing in our test CENTERS
- Determination of the process technology and performance balance
- Cost and time planning
- Determining the cost base of investment appraisals



## Engineering phase

During the detailed layout planning phase, we create 3D models, including the installation and assembly drawings. Risk assessments during the planning, realisation and operation phases are also an important aspect.

- Project management
- Risk analysis
- EX concept
- Automation, control
- Qualification, validation
- Documentation





### Realization phase

During system commissioning, the Service Team has the lead at the construction site. Construction and assembly supervision, control of the assembly team, coordination of the logistics and enforcement of safety at the construction site are central tasks.

While the system is being commissioned, the test runs of the individual components and the controller are performed, initially as a sequential test of the automation, then with the product, and finally as a complete process.

- Construction site supervision
- Assembly
- Commissioning
- Maintenance concepts
- Training of local staff



- Minerals
- Limestone
- Gypsum



- Cement
- Construction material



- Glass
- Sand



- Alloy
- Steel plants
- Foundries



- Power generation
- Filter ashes
- Pellets



- Water treatment
- Activated carbon
- Sewage sludge



## TEST CENTER

**Tests on an industrial scale reduce planning time and increase process safety!**

Test centers in Switzerland, France, England, Brazil, USA and Singapore are available for customer tests under near-production conditions. The test centers are equipped with original machines. Experienced specialists design the test layout according to your wishes and perform the tests.

- Testing of machines and prototypes with original products
- Checking of performance ranges and accuracies
- Testing of the interaction of multiple machines
- Gaining of experience for product processing
- Sampling for laboratory tests and market response
- Customer training

## SERVICE

**Worldwide support for commissioning, maintenance and service.**

We highly value punctual delivery, reliable assembly and thorough assembly monitoring. With well-planned commissioning and intensive on-site training we create the prerequisites for a smooth production start-up. Our service team and the global spare parts service combine to ensure long service life and high availability of systems with consistent product quality.

## YOUR PARTNER WORLDWIDE

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