

# ALLGAIER

Allgaier-Group



**ALLGAIER**  
PROCESS TECHNOLOGY

**MOGENSEN**

**GOSAG**

**MLOZETZ**

**ALMO**

## Product overview

Washing.  
Drying.  
Cooling.  
Screening.  
Sorting.



# Screening Machines

## Tumbler Screening Machines TSM / tsi

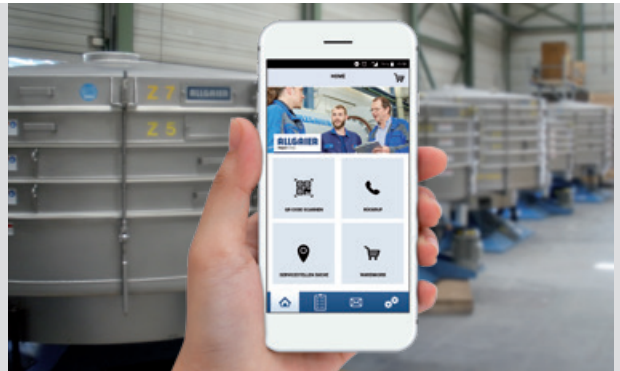
- Classification/safety screening/de-dusting of bulk materials of all industry branches
- Especially suitable for fine screening and precise classifications up to 6 fractions
- Modular system
- Diameter 600 mm to 2,900 mm
- Mild steel and stainless steel
- ATEX type certificate
- Wide range of screen cleaning systems available



## Allgaier ProcessApp

- Reduced procurement costs due to direct spare parts inquiry on the digital twin of the machine
- Additional service and information channel
- Direct document access thanks to fast identification of the machine via QR code scan
- Intuitive operation of the app

Download your free ProcessApp today  
with the QR code



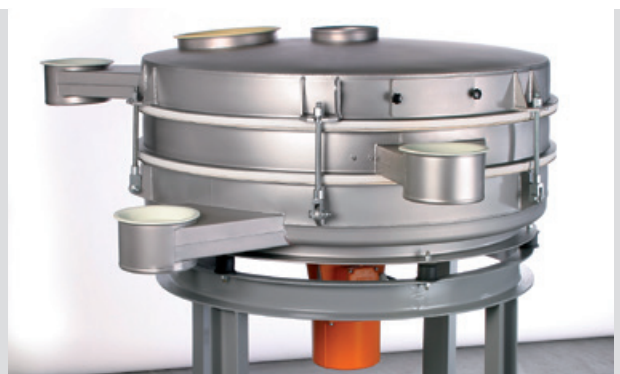
## Rectangular Tumbler Screening Machines QTS

- Mode of operation is identical to round Tumbler Screening Machines
- Classification up to 5 fractions
- Modular System
- Dimensions QTS 200 and QTS 240 for transport on a trailer or container
- Mild steel
- Clamping screens



## Vibratory Screening Machines VRS

- Screening machines of the VRS series are suitable for the economical processing of almost all bulk solids with fine to medium and coarse grains.
- Versatile use
- Dry- and wet screening
- Classification up to 4 fractions
- Protective- and control screening
- Dedusting
- Dewatering



# Screening Machines



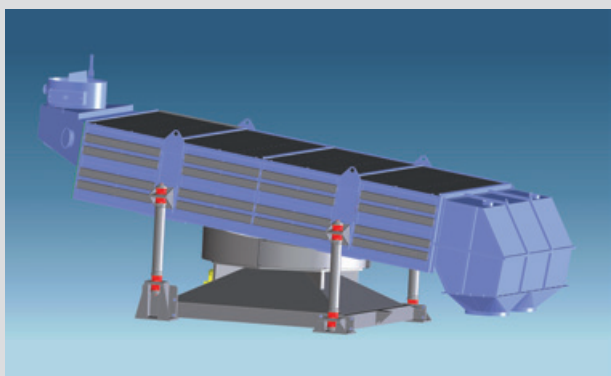
## Safety Screening Machines D

- Type series VIBRALL with 2 motors
- Diameter 500 to 1,800 mm
- Mild steel and stainless steel
- ATEX type certificate
- Centric in- and outlet for installation in pipework



## Gyratory Screening Machines ARSM

- For dry bulk materials of all kind
- Screening areas from 2 m<sup>2</sup> to 12.5 m<sup>2</sup> per deck
- ATEX type certificate
- Feed rates up to 350 m<sup>3</sup>/h possible



## Circular Motion Screens SMO-K

- Circular Motion Screen that operates according to the ejection principle
- Dry- and wet screening
- Separating cuts from medium fine to rough
- Robust and maintenance friendly design
- Mild steel and stainless steel





# Screening Machines

## Pharmaceutical Screening Machines

- Available with tumbler or vibratory screens
- Gentle product treatment
- Individual adaptation to the application
- Large variety of options
- Complete pharmaceutical documentation



## Screening Plants

- Supply of package units
- Individual integration of screening machines into the process
- Engineering and consulting services





### **Mogensen Sizer**

- Mogensen Sizer in multi-deck design for all types of bulk material
- Screening dry products at high output rates
- Up to 7 fractions
- Operating widths of 0.5 to 3 metres
- Compact, dust-tight design



### **Fine Sizer**

- Screening of products which are difficult to screen from 0.1 mm
- Direct excitation of the screen mesh
- Minimum transmission of dynamic forces
- Variable adjustment of amplitude, frequency and inclination
- Low drive rating



### **Combination Sizer**

- For screenings with a very wide grain distribution, from fine particles to coarse pieces of material
- The special solution for the exact separating cut, also for bulk materials which are difficult to screen
- Bar systems in the upper area and screen mesh in the lower area



### **Circular and Linear Vibratory Screens**

- Single-deck and double-deck version
- Various machine widths and screen lengths
- For "sharp" screening
- Compact design
- Dustproof design

# Sizers/Optoelectronic and X-ray Sorting Systems

## Bar Sizer

- Absolutely reliable for coarse separation
- Extremely robust design
- Guaranteed long-term, trouble-free operation, with no costs for power or maintenance
- Operating widths of 1 to 5 metres
- Easy charging by wheel loader



## Vibratory Bar Sizer

- Non-clogging screening of heavily contaminated bulk materials
- Design widths of 0.5 to 2.5 metres and lengths up to 7 metres
- Robust, infinitely-variable screening bar attachments



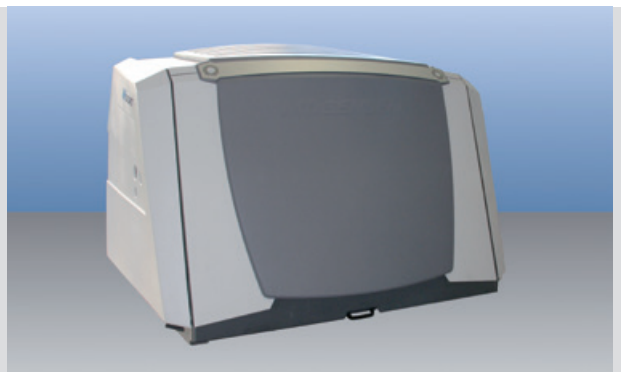
## MSort AF, AK

- Fine sorting from 1 mm, with the highest accuracy (type AK)
- Sorting of dry bulk materials in grain sizes ranging between 2-30 mm
- Sorting of glass, PET, minerals, sea and rock salt by colour
- All-metal detection, optional



## MSort AL

- Sorting of dry bulk materials in grain sizes ranging between 8-60 mm, performance up to 50 t/h
- Sorting of flat glass in colours and CSP, performance up to 30 t/h





# Optoelectronic and X-ray Sorting Systems



## MSort AX

- Sorting of contaminated recycling glass, grain sizes ranging between 6-60 mm
- CSP and sorting of colours, performance up to 25 t/h
- All-metal detection, optional

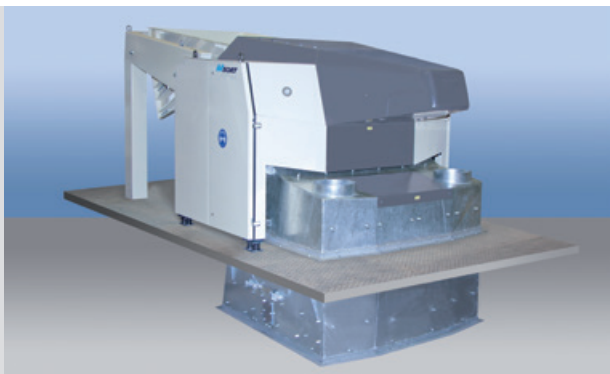


## MSort AS

- Sorting of bulk material in grain sizes ranging between 15-80 mm
- Sorting of minerals in colours, performance up to 120 t/h
- Designed for rugged conditions in recycling and mining

## MSort AT

- Design as for MSort AS with double-sided viewing for the detection of coadunate minerals
- For higher efficiency



## MSort AG

- Sorting of bulk material in grain sizes ranging between 80-250 mm
- Sorting of minerals in colours, performance up to 300 t/h
- Designed for rugged conditions in recycling and mining

## MSort AH

- Design as for MSort AG with double-sided viewing for the detection of coadunate minerals
- For higher efficiency



## MSort AQ

- Sorting of bulk material in grain sizes ranging between 10-40 mm
- Material detection by X-ray transmission method
- Sorting of lead crystal and glass ceramic, performance exceeding 25 t/h
- Sorting of plastics from recycling glass



# Densimetric Tables/Sand Washing Plants

## Densimetric Tables Type GSort

- Separation of products with high density and grain size up to 80 mm
- Powerful and flexible machine with the possibility to connect 4 modules in parallel
- Optimal use in the recycling and mining industry



## Densimetric Tables Type FM

- Separation of low-density products and medium particle sizes
- Robust design with wear parts for severe operating conditions



## Compact Sand Washing Units

- Hydro cyclone sand washing machines
- Higher performance to obtain top-quality sand
- Treatment and cleaning of dirty washing water



## Sand Removal Units

- Recycling of bentonite sludge recovered in special foundation and tunnelling jobs
- Separation of the sand carried when extracting to allow bentonite sludge to be reused



# Densimetric Tables/Sand Washing Plants/Vibrating Distributors



## Thickeners

- Treatment of the sludge generated in the washing processes of sand, sugar beets, sugar cane, etc.
- Recovery of water for its recirculation
- Flocculant preparation systems and automatic dosage



## Fine Particle Recovery Unit

- Recovery of fine sand by hydro cyclones
- Optional dewatering unit
- Complete range of sand modules: industrial sand, fine sand and clay
- Production increase by recovery and mist of fine sands
- Decrease of the rejection amount in the thickening process and protection of the water treatment plants
- Elevation of water for evacuation by gravity



## Vibrating Distributors Type TMS

- Lateral feed and distribution crossways to 1, 2 or 3 machines
- Capacities up to 300 t/h



## Dewatering Units

- Elimination of water in excess in the materials after washing units to obtain stronger pulp concentration
- For sand outputs from 20 to 300 t/h



# Fluidised Bed Plants/Rolling Bed Driers/Granulators

## Vibration Driers/Coolers WS-V-T/K

- Wide range of applications for bulk and powders in all branches
- Two-mass-resonance systems
- Free oscillating systems
- Food, chemicals, fertilizer, minerals, plastics



## Fluidised Bed Driers/Coolers with Heat Exchangers WS-HF-T/K

- Maximum throughput in combination with minimum energy consumption
- Indirect heat transfer by immersed heat exchanger bundles
- Salt and soda production, potato granules, animal fodder

## Static Fluidised Bed Driers/Coolers WS-T/K

- For bulk material and powders with a regular granulometry



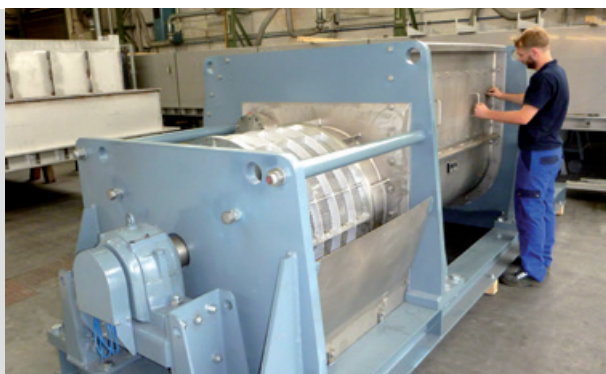
## Rolling Bed Drier WB-T

- For low temperature drying and effective waste heat recovery and utilization
- Wood chips, green waste cuttings
- Organic residuals
- Sugar beet pulp and bagasse
- Alternative fuels



## Granulator for Filter Cake

- Pelletising of thixotropic filter cake for effective drying
- Titanium dioxide, hydroxides



# Fluidised Bed Plants/Drums for Heated Calcination



## Dispersion Drier FL-T

- Concurrent flow principle
- Gentle short time drying
- For powders, flours and fibres
- For starches, potato granules, sodium sulphate, grass fibre, chitosan, plastic sheet shred



## Fluidised Bed Spray Granulators WS-GT

- Drying of suspensions and solutions
- Production of free flowing granules and agglomerates
- For yeast, fine chemicals, special fertilizers, industrial effluents, urea granulation



## Suspension and Paste Drier WS-IB-T

- Drying of suspensions, pastes, solutions and filter cakes
- Production of ultrafine dry powder, free of agglomerates
- For pigments, hydroxides, silicon dioxide, chemical effluents



## Drums for Direct Heated Calcination

- High temperature applications
- Directly heated by means of gas or oil burners
- Calcination of clay, zeolites, silicate powder, cement, etc.



# Drum Driers and Coolers

## Drum Driers TTD, TT, TT-TR

- MOZER system
- Single, Double, Triple shell driers
- Minerals, sand, slag, ores, coal, clay and bentonite
- Chemicals and fertilizer
- Organic residuals, waste recycling and secondary fuel, rejects
- Special model for groceries like cocoa, rice, sugar, etc.



## Drum Driers/Coolers TK and TK+

- MOZER system
- For gravel, silica sand, natural sand, limestone
- TK for an optimum of energy efficiency with air cooling
- TK+ for highest energy efficiency by evaporation cooling



## Drying and Cleaning Drums TRH

- MOZER system
- Drying and cleaning of contaminated limestone
- Replacement of limestone washing plants



## Drying and Label Removing of glass

- Label and mud remover for sorting of glass
- Processing of used glass and recycling



# Drum Driers and Coolers



## Drying and Grinding TTM

- MOZER system
- Drying and crushing of filter cake, lump size reduction
- De-agglomeration of minerals

## Drying and Separation TTT

- MOZER system
- Drum drier with screening device for separation of coarse particles
- Shreddered material from car recycling



## Granulation and Coating Drums

- Granulation of fertilizer
- Coating of fertilizer
- Reaction processes

## Grain Heater

- Thermal treatment of granules and pellets
- Batch-wise operation
- Mineral granules, proppants etc.



## Indirect Rotary Drum Cooler Type RKT

- High temperature applications 800-1,200 °C
- Product flow inside the pipes
- Heat recovery from and for calcination processes
- Titanium dioxide, magnesium hydroxide, aluminium hydroxide

## Indirect Rotary Drum Cooler Type KTR

- For low temperature applications 100-500 °C
- Product flow outside the air or water cooled tubes
- Cooling of gypsum, slag powder



## Drums for Indirectly Heated Calcination

- Indirect tube bundle, optional heat exchangers
- Indirectly heated by means of gas or oil burners
- Indirectly heated by means of electricity
- Zeolites, silicate powder, titanium dioxide



## Batch Drier WS-CA

- For granulation and agglomeration
- Design according to GMP/FDA regulations
- Top-spray, bottom-spray, side-spray
- With or without inert gas circuit
- Explosion-proof design
- Including qualification for FDA validation

## "WURSTER"-Coater WS-T-C

- Coating of particles and pellets



## Continuous Fluid Bed Drier WS-T

- Design according to GMP/FDA regulations
- With or without inert gas circuit
- Explosion-proof design
- Including qualification for FDA validation
- For pharmaceutical raw materials, groceries, fine chemicals



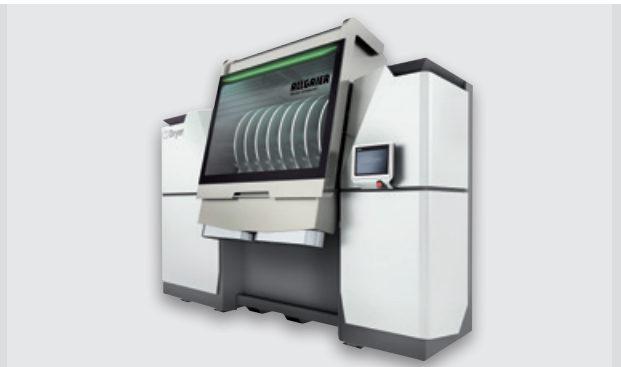
## Vibration Batch Drier WS-V-CT

- For smaller quantities of solids
- For very difficult products regarding fluidisation
- Gelatine and alginate capsules
- Especially for long drying times



## CD Dryer

- Contact dryer for suspensions and solutions
- For pigments, salt solutions, chemical effluents, hydroxide slurries, ceramics, gelatin, brewery wastewater, etc.
- Compact dimensions and special efficiency
- Steam heated



# Sizer



## Test facility

Oftentimes, only testing reveals the optimum solution. Our technical centre is at your disposal for carrying out tests. Series of tests can be carried out on both, long- and short-decked screening machines or on circular sieves.



## Sizer F1516

- Control screening is effected by a customized F1516



## Sizer G2034 for feed pellets and flakes

- A compact Mogensen screen for size separations of various products
- Separation of products with a grain size ranging between 0.1 and 20 mm
- Powered by a single vibrator for elliptical motion
- Width: 0.5/1/1.5/2 metres
- From 1 to maximum 5 decks



## Mogensen Sizer type SEL

- Mogensen long-decked screen for large capacities and high screening efficiency
- Separation of products with a grain size ranging between 0.1 and 30 mm
- Powered by two vibrating motors for linear motion
- Width: 1/1.5/2 metres
- From 1 to maximum 5 decks

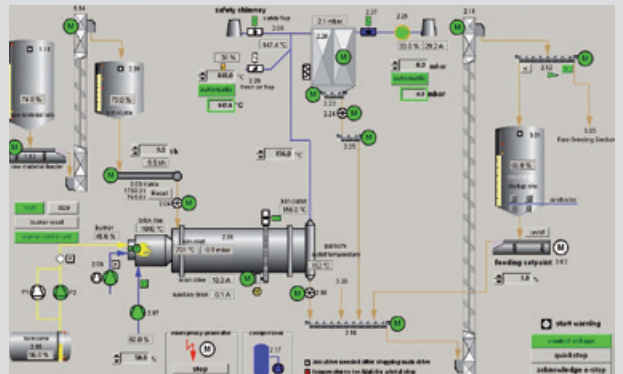
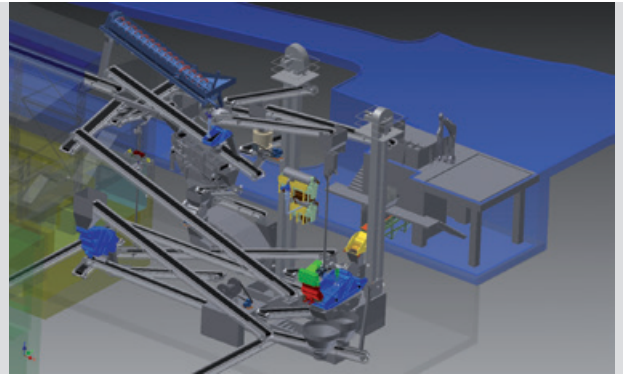


## General Engineering

Together with you we develop the concept, we realize your ideas and implement your know-how. We support you during all phases of the project:

- Conception
- Basic engineering
- Detail engineering
- Delivery
- Transport
- Erection
- Start-up
- After Sales
- Optimization
- From package units to turnkey projects
- Co-responsibility for large-scale-projects

We co-operate with your approved partners – for cost-effective, fast and unbureaucratic solutions.



## Production of complete turn-key plants

- Minerals
- Fertilizer
- Foodstuff
- Fine chemicals
- Processing glass for recycling



## Control Systems and Visualization

- For new installations
- For existing installations
- Various control systems available



# Engineering/Plant Construction



## Screening Plants

- For coarse materials
- For fine materials
- Safety screening
- Difficult challenges can be met by combining our technologies



## Packing Plants

- Inline packing plants
- Rotating packing plants
- Paper and plastic bags
- Big bag filling

## Breaking Plants/Grind Plants

- For preparing further processing steps
- Hard and robust design
- Minerals, recycling material



## Service

- Spare parts
- Repair and maintenance
- Modernization, retrofit and service of existing systems
- Process consulting
- Energetic consulting



## Test Centre and Laboratories

- For experimental investigations, product design and demonstrations
- All technologies of drying, cooling and screening of the portfolio
- Semi-scaled sizes for best scale up
- Contract screening and drying



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