Washing.
Drying.
Cooling.
Screening.
Sorting.
Conveying.
**Tumbler Screening Machines TSM**
- 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
- Explosion proof designs
- Wide range of screen cleaning systems available

**Vibratory Screening Machines VTS**
- Dry and liquid screening
- Classification/safety screening/de-dusting/dewatering
- Modular system
- Diameter 600 to 1,400 mm
- Up to 4 fractions
- Explosion proof designs
- Wide range of special equipment available

**Vibratory Screening Machines VRS**
- Economic alternative comprising of standardized modules
- Dry and liquid screening
- For simple classification/safety screening/de-dusting/dewatering applications
- Diameter 600 to 1,500 mm
- Up to 4 fractions

**Safety Screening Machines D**
- VIBRALL type series with 2 motors
- Diameter 500 to 1,800 mm
- Mild steel and stainless steel
- Explosion proof designs
- Centric inlet and outlet for installation in pipework
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

**Gyratory Screening Machines ARSM**
- For dry bulk materials of all kind
- Screening areas from 21.5 ft² to 134.5 ft² per deck
- Explosion proof designs
- Feed rates up to 350 m³/h possible

**Circular Motion Screens**
- For dry and liquid applications
- Robust design
Screening Conveyors / Vibratory Conveyors VCS
- For dry bulk materials of all kinds
- Large variety of models (width and length)
- Robust design
- Screening deck, optional
- Open or enclosed design

Permanent Magnetic Drums PMT
- Iron separation from medium to fine bulk materials
- Large variety of models (diameter and width)
- Robust design
- Housing, optional
- Integration into combined screening and separation plants possible

Magnetic Grids
- For dry and liquid products
- Continuous separation from the product stream
- For installation in pipes, hoppers, chutes, troughs

Air Separator
- Perfect for separation of fines
- For Gypsum, Limestone, Dolomite
- No separate dust filter (cyclone, bag-filter) necessary
**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 19.7” to 118.11”
- Compact, dust-tight design

**Fine Sizer**
- Screening of products which are difficult to screen from 18 mesh
- 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
**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 39.37” to 196.85”
- Easy charging by wheel loader

**Vibratory Bar Sizer**
- Non-clogging screening of heavily contaminated bulk materials
- Design widths of 19.85” to 98.4” and lengths up to 22.966 feet
- Robust, infinitely-variable screening bar attachments

**Mogensen MikroSort® AF**
- Sorting dry bulk material in grain sizes ranging between 2-15 mm
- Sorting of glass, PET, minerals, sea and rock salt by color

**Mogensen MikroSort® AK**
- Sorting dry bulk material in grain sizes ranging between 1-10 mm
- Fine sorting from 1 mm, with the highest accuracy
- Applications such as for MikroSort® AF

Both machines with all-metal detection, optional

**Mogensen MikroSort® AX**
- Sorting of contaminated recycling glass, grain sizes ranging between 5-60 mm
- CSP and sorting of colors, performance up to 20 t/h
- All-metal detection, optional
Optoelectronic and X-ray Sorting Systems

**Mogensen MikroSort® AL**
- Sorting of dry bulk material in grain sizes ranging between 5-60 mm
- Sorting of flat glass in colors and CSP, performance up to 30 t/h
- Sorting of minerals in colors, up to 50 t/h

**Mogensen MikroSort® AP**
- Sorting of bulk material in grain sizes ranging between 5-40 mm
- Sorting of minerals in colors, performance up to 50 t/h
- Designed for rugged operating conditions in recycling and mining

**Mogensen MikroSort® AS**
- Sorting of bulk material in grain sizes ranging between 30-100 mm
- Sorting of minerals in colors, performance up to 100 t/h
- Designed for rugged conditions in recycling and mining

**Mogensen MikroSort® AT**
- Design as for MikroSort® AS with double-sided viewing for the detection of combined minerals
- For higher efficiency

**Mogensen MikroSort® AL**
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- Sorting of minerals in colors, performance up to 100 t/h
- Designed for rugged conditions in recycling and mining

**Mogensen MikroSort® AT**
- Design as for MikroSort® AS with double-sided viewing for the detection of combined minerals
- For higher efficiency

**Mogensen MikroSort® AG**
- Sorting of bulk material in grain sizes ranging between 80-250 mm
- Sorting of minerals in colors, performance up to 200 t/h
- Designed for rugged conditions in recycling and mining

**Mogensen MikroSort® AH**
- Design as for MikroSort® AG with double-sided viewing for the detection of combined minerals
- For higher efficiency

**Mogensen MikroSort® AQ**
- Sorting of bulk material in grain sizes ranging between 5-50 mm
- Material detection by X-ray transmission method
- Sorting of lead crystal and glass ceramic, performance exceeding 20 t/h
- Sorting of plastics from recycling glass
- Sorting of minerals according to average atomic density, performance up to 40 t/h
Densimetric Tables Type M
- Separation of products with a high density and grain sizes up to 80 mm
- Special robust design to separate crushed minerals or metals
- Possibility to install an extractor hood and ducts to fully or partially re-circulate the air

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 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 recirculation water
- Flocculant preparation systems and automatic dosage

**Fine Particle Recovery Unit**
- Recovery of fine sand by hydrocyclones
- 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

**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
Fluidized Bed Plants

**Vibration Dryers/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

**Fluidized Bed Dryers/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 Fluidized Bed Dryers/Coolers WS-T/K**
- For bulk material and powders with a regular granulometry

**Rolling Bed Dryer 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**
- Pelletizing of thixotropic filter cake for effective drying
- Titanium dioxide, hydroxides
Fluidized Bed Plants

**Dispersion Dryer FL-T**
- Co-current flow principle
- Gentle short time drying
- For powders, flours and fibers
- For starches, potato granules, sodium sulphate, grass fibers, chitosan

**Fluidized 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

**Suspension and Paste Dryer 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, etc.
Drum Dryers TTD, TT, TT-TR
- MOZER system
- Single shell dryers
- Double shell dryers
- Triple shell dryers
- Minerals, sand, slag, clay and bentonite
- Chemicals and fertilizer
- Organic residuals, waste recycling and secondary fuel, rejects

Drum Dryers/Coolers TK and TK+
- MOZER system
- For gravel, silica sand, natural sand, limestone
- TK for an optimum of energy efficiency
- TK+ for highest energy efficiency

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

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

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 dryer with screening device for separation of coarse particles
- Shredded material from car recycling
Drum Dryers and Coolers

Granulation and Coating Drums
- Granulation of fertilizer
- Coating of fertilizer
- Reaction processes

Grain Heater
- MOZER system
- Thermal treatment of granules and pellets
- Batch-wise operation
- Gas heated, indirect
- Proppants
- Minerals, granules

Indirect Rotary Drum Cooler
- High temperature applications 1,472 to 1,832 °F
- Product flow inside the pipes
- Heat recovery from and for calcination processes
- Titanium dioxide
- Magnesium hydroxide
- Low temperature applications 212 to 572 °F
- Product flow outside the air or water cooled tubes
- Cooling of gypsum

Drums for Indirectly Heated Calcination
- Indirect tube bundle heat exchangers
- Indirectly heated by means of gas or oil burners
- Indirectly heated by means of electricity
- Zeolites
Pharmaceutical Plants

**Batch Dryer 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 Dryer 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

**Vibration Batch Dryer WS-V-CT**
- For smaller quantities of solids
- For very difficult products regarding fluidization
- Gelatine and alginate capsules

**Laboratory Dryer WS-CT-L**
- Research and development
- Small batch production
**Vibrating Conveyors**
- For all types of dry bulk material
- Open and enclosed design
- Vibratory feeder for bridging horizontal sections
- Discharge feeder under hopper load
- Feeder for controlled material distribution
- Tailor-made designs possible

**Distributing Feeders**
- For even feed distribution across the whole width of the screening machine
- Optimizes the quality of screening and throughput
- Transverse distribution feeders for even feeding of up to two screening machines
- Alternative distribution channels for centered material feed

**Tubular Vibrating Feeders**
- Dust-proof conveyance of all types of dry bulk material
- Low drive rating
- Conveyance distances of up to 22.996 ft

**Grizzly Feeders**
- Used for tough jobs involving large material and high production rates
- Capacities up to 700 t/h
**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 cooperate with your approved partners – for cost-effective, fast and unbureaucratic solutions.

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**Control Systems and Visualization**

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

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**Crushing Plants/Grinding Plants**

- Pre-crushing for subsequent process steps
- Heavy-duty, robust design
- Fine grinding
- Grinding loops
- For a wide range of minerals
- For recycling material
Engineering/Plant Construction

Drying and Calcination Plants
- For fine and coarse grain sizes
- For a wide range of minerals
- Available for higher temperatures

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

Test Center 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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