



YOUR  
PARTNER  
FOR THE  
**CHEMICAL  
& FOOD  
INDUSTRY**

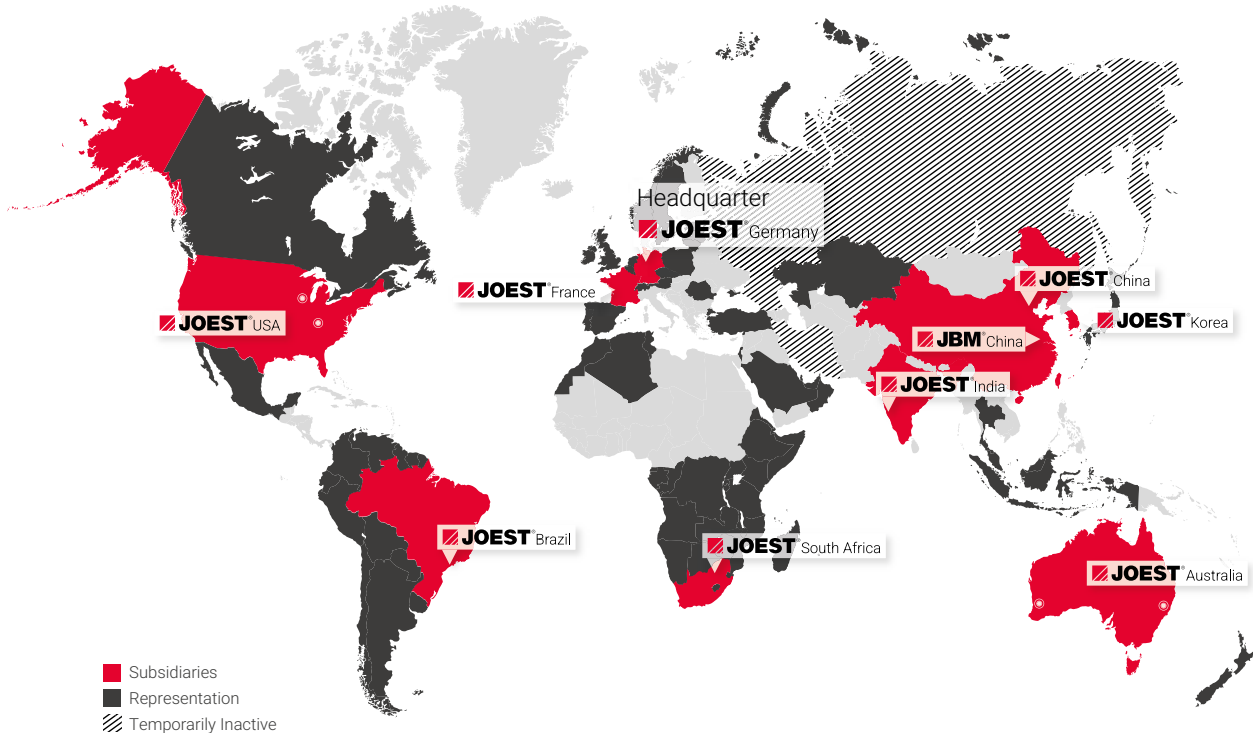




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# JOEST® group



Our Brands: **JVM** **GOESSLING**

# WE BUILD SOLUTIONS.

These industries with their complex and demanding processes require the highest quality standards regarding machine design. First class quality, safety at work and reliability are very important for these industries. JOEST vibrating machines made of stainless steel are the best choice for all process engineering tasks. Our wide range of products for bulk processing in the chemical and food industries include vibrating conveyors, spiral elevators, screens and vibrating fluidized beds, offering innovative technologies

for conveying, screening and thermal processing.

JOEST is a medium-sized German company and an international leader in vibration technology. Our more than 100 years of experience are an important basis for our flexibility, creativity and innovative skills to meet any customers' need. We are represented worldwide with our subsidiaries and agents, which enable us to analyze and discuss each application directly on site with our customers.

**“We don't just build machines. We build solutions. With us, our customers get everything from a single source, from sales contact through production right up to commissioning.”**

Dr. Marcus Wirtz, Managing Partner JOEST group

# APPLICATIONS

With the JOEST technologies, many different applications in the chemical and food industrie can be served – from single machines to complex systems. Whether custom or standard solutions, JOEST offers a wide range for thermal processing, screening, conveying, dosing and feeding.



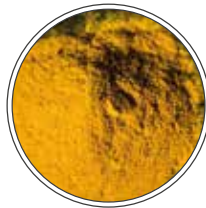
## CHEMICALS

- ✓ Plastics
- ✓ Silicium
- ✓ Fertilizer
- ✓ Citric acid
- ✓ Different types of salt
- ✓ Various types of chemicals



## FOOD & ANIMAL FEED

- ✓ Sweets
- ✓ Sugar
- ✓ Spices
- ✓ Cereals
- ✓ Dry foods
- ✓ Cocoa beans
- ✓ Extruded proteins
- ✓ Insects (BSF-Larvae, Mealworms)





**SPIRAL ELEVATOR**

## CONVEYING & DOSING

Efficient and gentle conveying are some of the significant features of JOEST vibrating feeders – independent when conveying material over short or long distances.

At JOEST you will find simple standard feeders up to complex special solutions. Each dosing feeder is individualized to the customer requests. JOEST dosing feeders can be fitted a wide variety of optional features to meet customer specifications.



**DOSING FEEDER**



## VIBRATING TROUGH-TYPE FEEDER



## VIBRATING RESONANCE TUBE-TYPE CONVEYOR

- ✓ Large conveying lengths possible, up to 30 m
- ✓ Closed design, good suitability for ATEX & food applications
- ✓ Low dynamic forces & low energy consumption





# SCREENING

Screening of the smallest particulates or separating of overlengths, classifying of grainy products, dewatering and washing screens – all from a single source.

## LINEAR MOTION SCREEN

- ✓ Screen decks of up to 7.2 m<sup>2</sup> available
- ✓ High throughput up to 80 t/h
- ✓ Classifier for plastic granules

## VIBRATING SCREEN

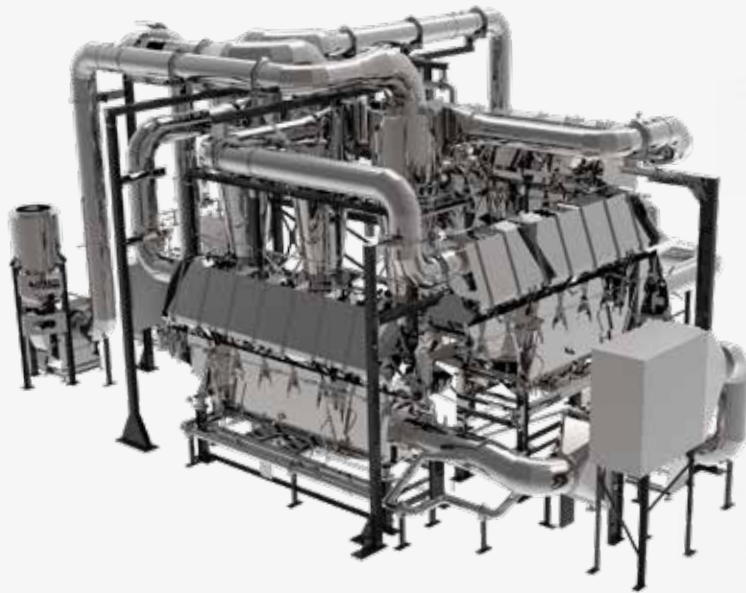
## WITH MAGNETIC DRIVE

- ✓ Screen decks of up to 2.5 m<sup>2</sup> available
- ✓ Capacity typically up to 5 t/h
- ✓ Vibrating screen for various bulk products in chemical, plastic and food industry

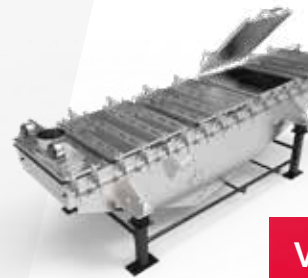


## SMALL SCREEN

- ✓ Compact vibration screen with magnetic drives
- ✓ Single or double deck design
- ✓ Easy to clean



**FLUIDIZED BED COOLER**



**VIBRATING**

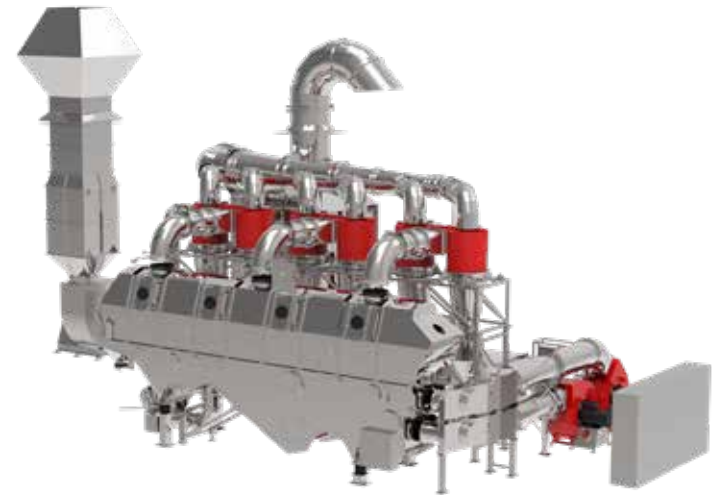
**COOLING CONVEYOR**

# PROCESSING TECHNOLOGY

With their unique kind of construction, vibrating machines for drying and cooling for thermal processing of bulk are our core competence – utilizing a single machine or complete system solution with contact and convective heat exchange as well as combination with other vibrating or non-vibrating machines.



**FLUIDIZED BED DRYER**





## FLUIDIZED BED SYSTEMS

- ✓ Cooling, drying, heating & tempering (hygienisation)
- ✓ Contact heat transfer with high levels of efficiency
- ✓ Low energy consumption & compact design
- ✓ User friendly and low maintenance



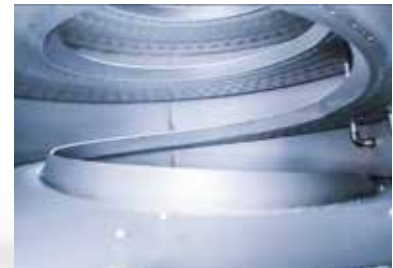


## SPIRAL DRYER & COOLER

- ✓ Gentle, vertical conveyance
- ✓ Simultaneous conveyance and thermal treatment
- ✓ Combination of contact and convective heat transfer possible



## INVERTED SPIRAL



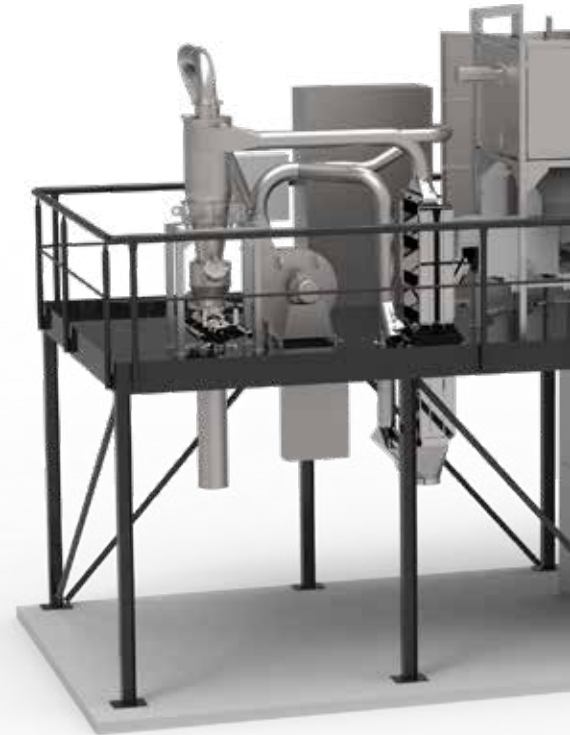
# SIFTING

The JOEST Zig-Zag-Air-Separator uses an airtight feed mechanism to convey the material into the sifter channel. Here, lighter materials are separated from heavier ones using a multiple cross-flow sifting process.

The lighter particles are swept away with the air current while heavier particles fall toward the bottom against the flow of air and are discharged at the base of the separator.

- ✓ High-precision separation due to multistage cross-flow process
- ✓ Recirculation function means no emissions
- ✓ Maintenance hatches in the sifter channel for quick cleaning

## ZIG-ZAG-AIR-SEPARATOR





# LIFTING & TIPPING

JOEST provides lifting and tipping units as well as stroke-pivot column for food and chemical applications. The product range includes single devices up to complex systems.

Focussed on proper and safety function but also considering the requirements of hygienic aspects.

- ✓ Product-friendly tilting
- ✓ Variety of different options and accessories
- ✓ Optimal space utilization and flexible container handling



**SWIVEL & LIFTING COLUMN**

# AUTOMATION TECHNOLOGY

## CONTROL AND REGULATION

- ✓ PLC from Siemens and Allen-Bradley
- ✓ Intuitive operation through industry-standard HMI solutions
- ✓ Individual recipe management based on expert knowledge
- ✓ Modern drive technologies and control procedures
- ✓ High process reliability and data-tracking
- ✓ Control and monitoring of external machines

## INDUSTRY 4.0

- ✓ Holistic monitoring of the machines and plant parameters
- ✓ Remote maintenance and IoT gateways
- ✓ Dashboard analyses and remote access
- ✓ Connection to higher-level controls or ERP systems



## AUTOMATION TECHNOLOGY

- ✓ State-of-the-art electrical design with EPLAN P8
- ✓ Switch cabinet for extreme conditions (e.g. Atex) or country-specific standards (e.g. UL)
- ✓ Verified and validated safety engineering according to DIN EN ISO 13849-1 & 2
- ✓ Individual software solutions based on proven standards and vast experience

MADE TO  
MEASURE



# TEST CENTER

The Test Center is an essential benefit for JOEST. The latest hard- and software can be tested and improved there. Furthermore, JOEST profits from a wide range of know-how along with synergies from other areas. Ample conference room capacities make it a training center for internal and external purposes.

The state-of-the-art Test Center in Duellen, Germany is available any time to perform tests at an industrial scale. JOEST focuses on replicating your demands,

viability and the ROI of the planned investment and provide investment security with facts and data.

Solutions are often based on the individual wishes of the clients. The JOEST application specialists provide you with competent and target oriented support in solving your processing tasks.

- ✓ Fluidized Bed Dryer
- ✓ Spiral Elevator & Dryer
- ✓ Feeder

- ✓ Screens
- ✓ Zig-Zag-Sifter
- ✓ Experiments with various material possible

„Worldwide commissioning and training with our own staff who are experienced in the JOEST product range.“

## SYSTEM SOLUTION

- Holistic view of processes and logistics
- Reduction of interfaces for customers
- Cross-functional cooperation between various equipment

## STANDARDISATION

- Established equipment designs for various applications
- Predefined and established PLC operation
- Raster of widths and heights for multiple used machines

# DELIVERY PROGRAM

## CHARGING & FEEDING

- Hopper Discharge System
- Resonance Conveyor
  - One-Mass-System
  - Mass Compensated
  - Two-Mass-System
- Vibrating Trough-Type Feeder
- Vibrating Tube-Type Feeder
- Spiral Elevator

## COOLING

- Fluidized Bed Cooler
- Contact Cooler
- Spiral Cooler

## DRYING

- Fluidized Bed Dryer
- Contact Dryer
- Spiral Dryer

## DOSING

- Small Screen
- Small Dosing Feeder

## SIFTING , SORTING, SEPARATING

- Zig-Zag-Air-Separator
- Compaction Table

## SCREENING

- Dewatering Screen
- Circular Motion Screen
- Linear Motion Screen
- Screen with magnetic drives

## WEIGHING

- Withdrawal weighing
- Differential dosing weighing



A member of the  
**JOEST® group**

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