



Presentation by

WinProcess

Your partner for process solutions

WinProcess in The Netherlands is an agent for suppliers who are active in the field of mixing, drying, reacting, separating, storage, discharging, weighing and dosing, silos and bunkers, bulk handling, drums, pressure drums and valves.

For the Benelux WinProcess represents these partners:



Riera Nadeu



Mixing, drying, reacting, modifications, turn key installations, custom made machines

Centrifuges, flash and spray dryers, micronizers

Stainless steel drums, pressure drums, washing units, valves, custom made designs

Silos, discharge systems, conveying, bulk solid logistics plants, biomass plants

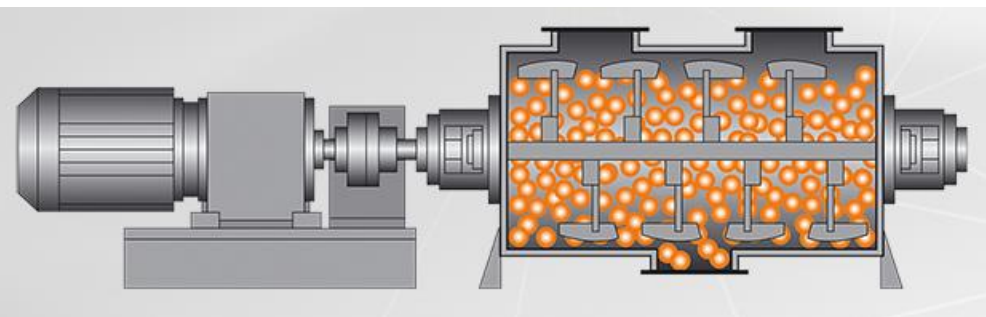
Ploughshare, ribbon and peddle mixers

BHS-Sonthofen Process Technology

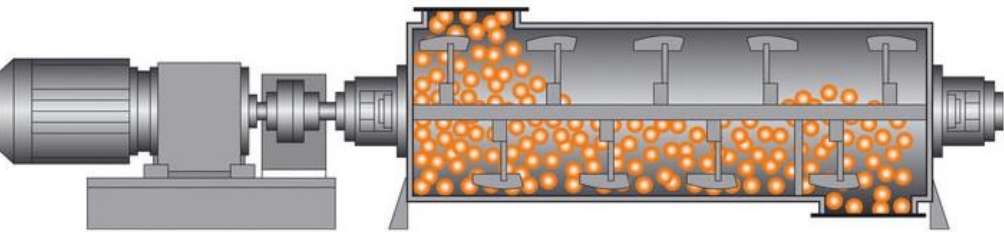


- AVA was founded in 1991 by Helmuth Huep and Dagmar Huep
- Location Herrsching, near München (D)
- Horizontal and vertical mixing/drying systems and turn key installations
- Mixing, drying, reacting, evaporating, coating, sterilization, granulating, compacting
- Lots of knowledge in the fields of mixing and drying, especially for critical applications
- Modern test center
- Flexibel organization
- Since 2018 part of BHS-Sonthofen (D)

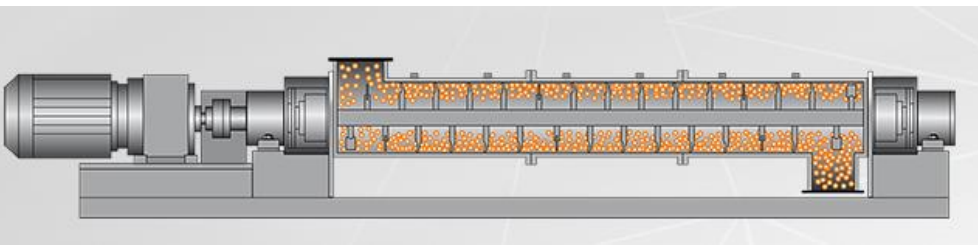




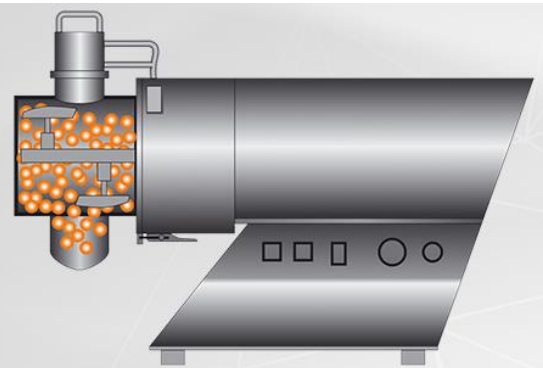
Batch horizontal



Continue horizontal



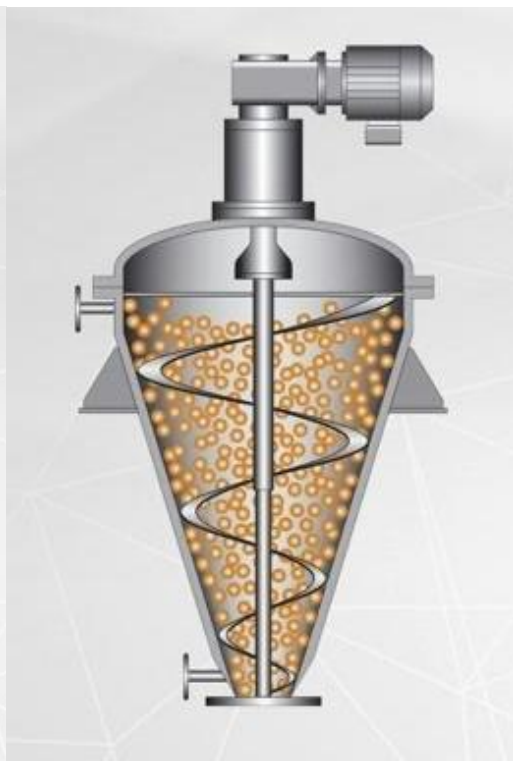
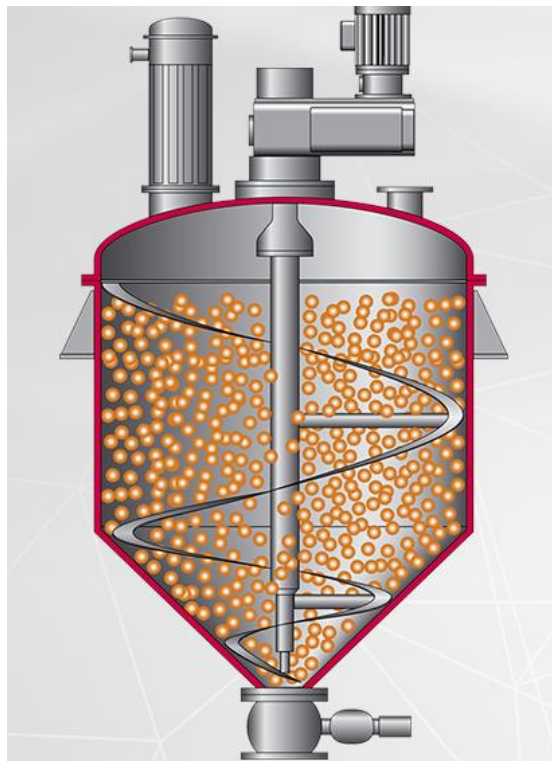
Continue ring layer



Laboratorium



Mixers



Batch vertical

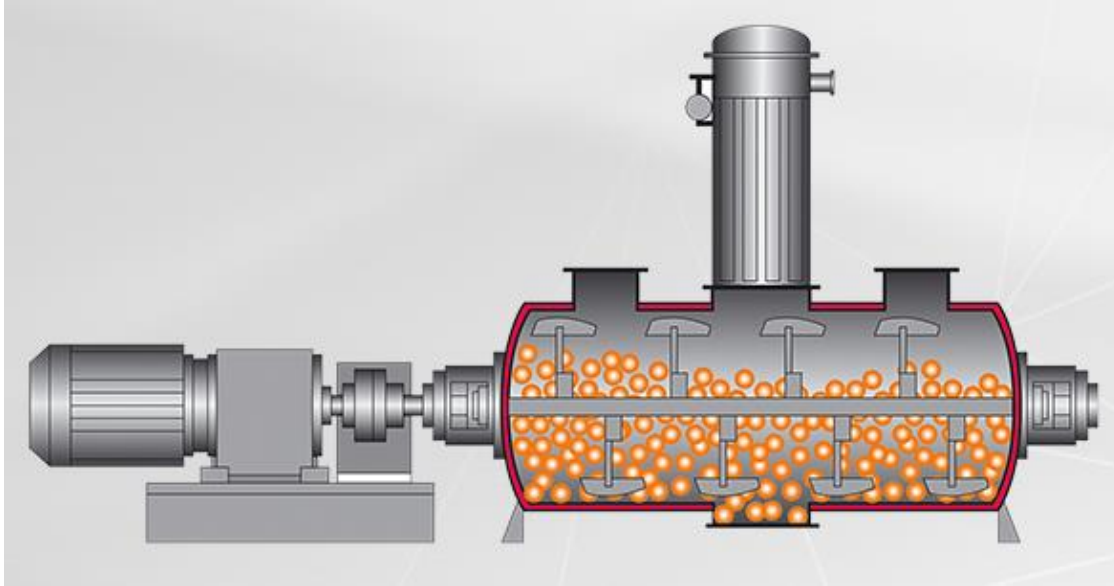
Batch mixers:

- 100 – 30.000 liter horizontal / 20 – 25.000 liter vertical
- Mixing time between 15 seconds and a few minutes
- Product volume between 20 and 80%
- Easy to clean, CIP systems
- Reproduction of your mixing results

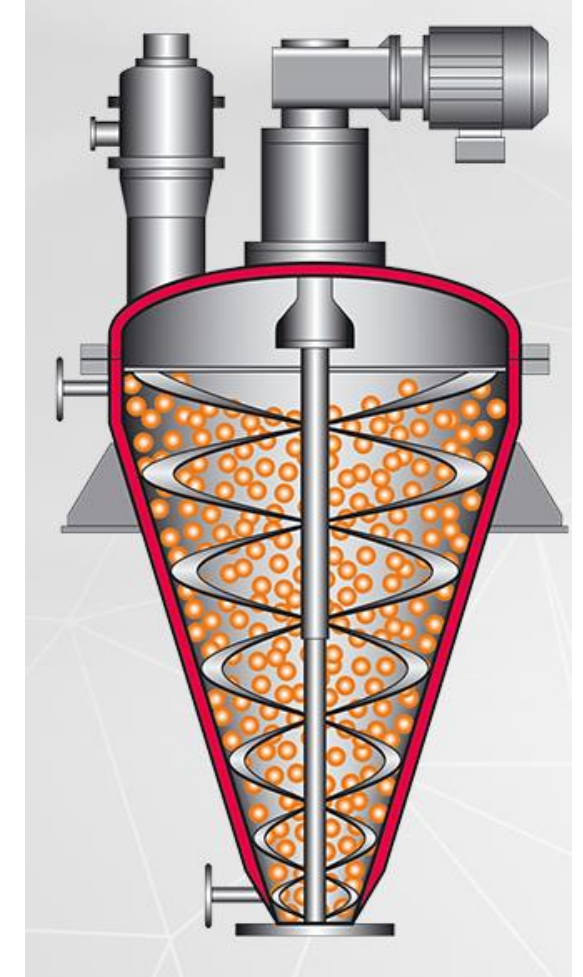
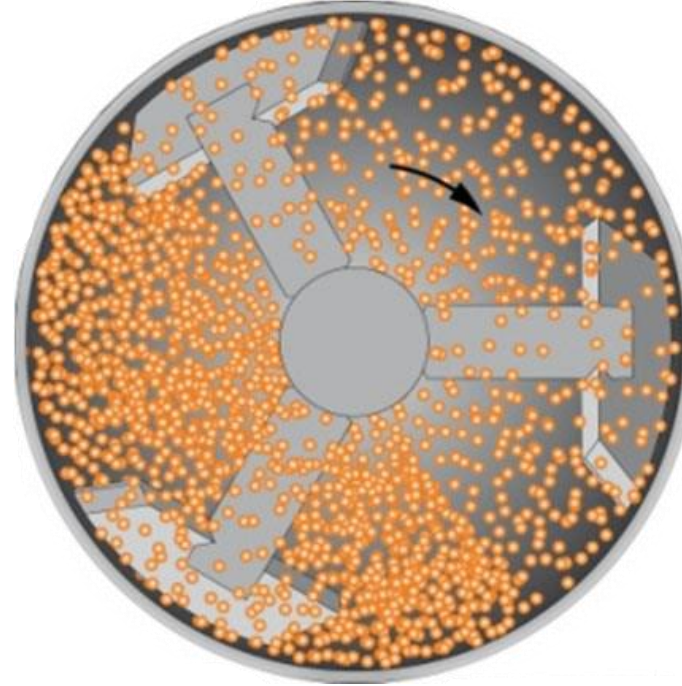
Continuous mixers:

- 0,1 – 1000 m³/hr capacity
- Mixing times between 15 seconds and 30 minutes
- Product filling level of up to 70%
- High energy efficiency

Dryers and reactors



Batch horizontal



Batch vertical



Horizontal and vertical dryers/reactors:

- -20 to 800 °C
- -1 bar to +40 bar
- Heating media: steam, water, thermal oil or electrical heating
- Design- and process-related short drying times
- Materials: carbon steels through to high-quality stainless steels such as Hastelloy
- Temperature transfer via double jacket, half pipe and shaft
- Custom made designs for your application

Examples

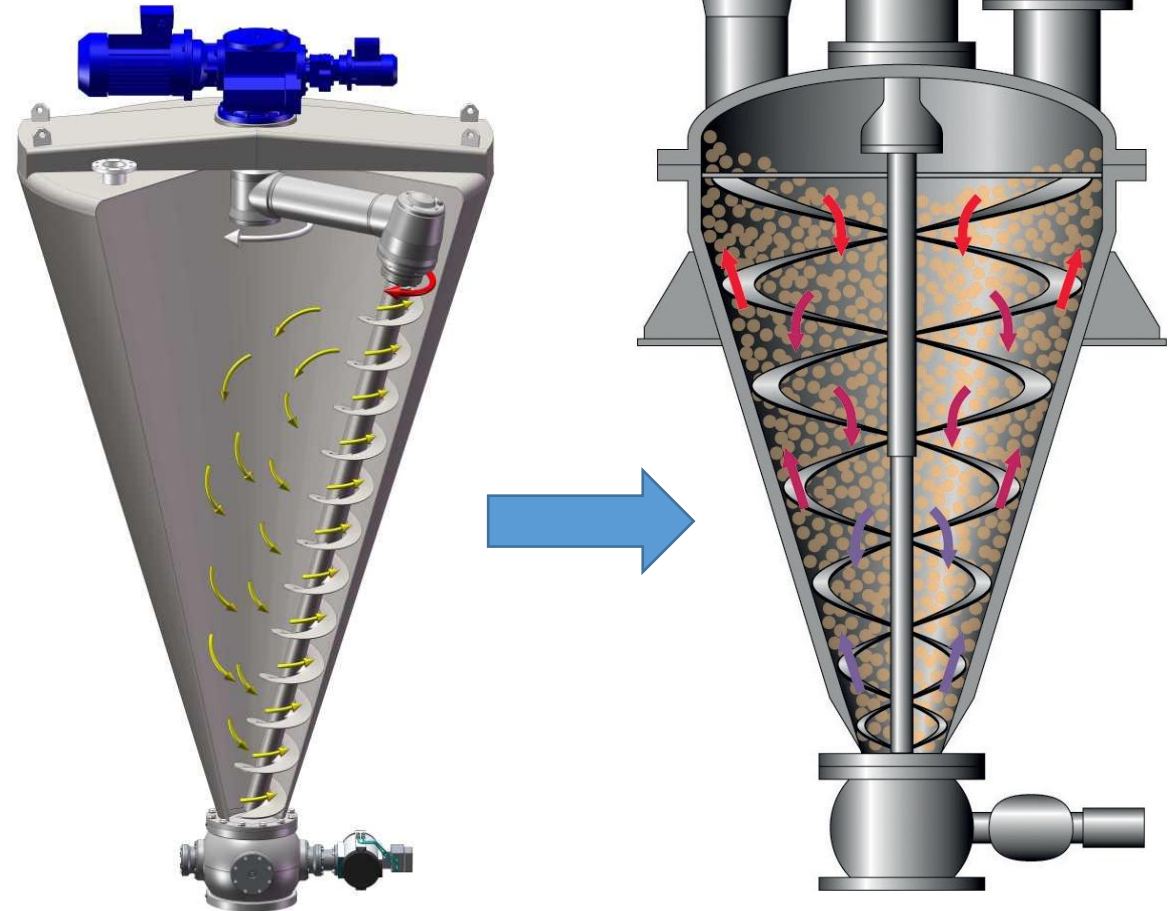


Mixer Modifications

Advantages of the AVA Helix System retrofit for your conical mixer:

- Maintenance and servicing costs are practically eliminated as the angular geared base systems are replaced.
- Increase in usable volume of the existing mixer/drying mixer of up to 30%.
- Up to four times shorter mixing times due to application of the AVA mixing helix.
- Treatment times reduced by up to a factor of 3 when drying, cooling, and heating due to application of the AVA mixing helix.
- Additional option to utilize agglomerate crushers directly in the product chamber in order to achieve a finer end product.
- In comparison to screw mixers, which require two drives (one for the screw and another one for the circulating operation), the AVA helix only requires one drive.
- Mixing shaft and mixer helix can also be heated, which results in approximately 5–6 times faster treatment times when drying, cooling, and heating.

The AVA mixing helix is self centering and therefore essentially requires no additional bearing. The modification has already been performed to the full satisfaction of our customers for machines with capacities of up to 25.000 liters.



Riera Nadeu

- Founded in 1952, based in Granollers (Barcelona Spain)
- First a focus on centrifuges and supercentrifuges for local deliveries
- After a few years flash dryers, spray dryers and micronizers were added
- Standard and special design solutions
- From small lab to large production units
- Flexibel organisation and a modern test centre
- Biotechnology, pharma, food, chemical, energy
- Delivers worldwide, over 2000 references



Farmaceutical design centrifuges



- Horizontal batch centrifuge
- Automatic discharge
- 1000 G mini
- 9 to 550 liter drum
- Clean room
- GMP, no contamination
- Special design, many options



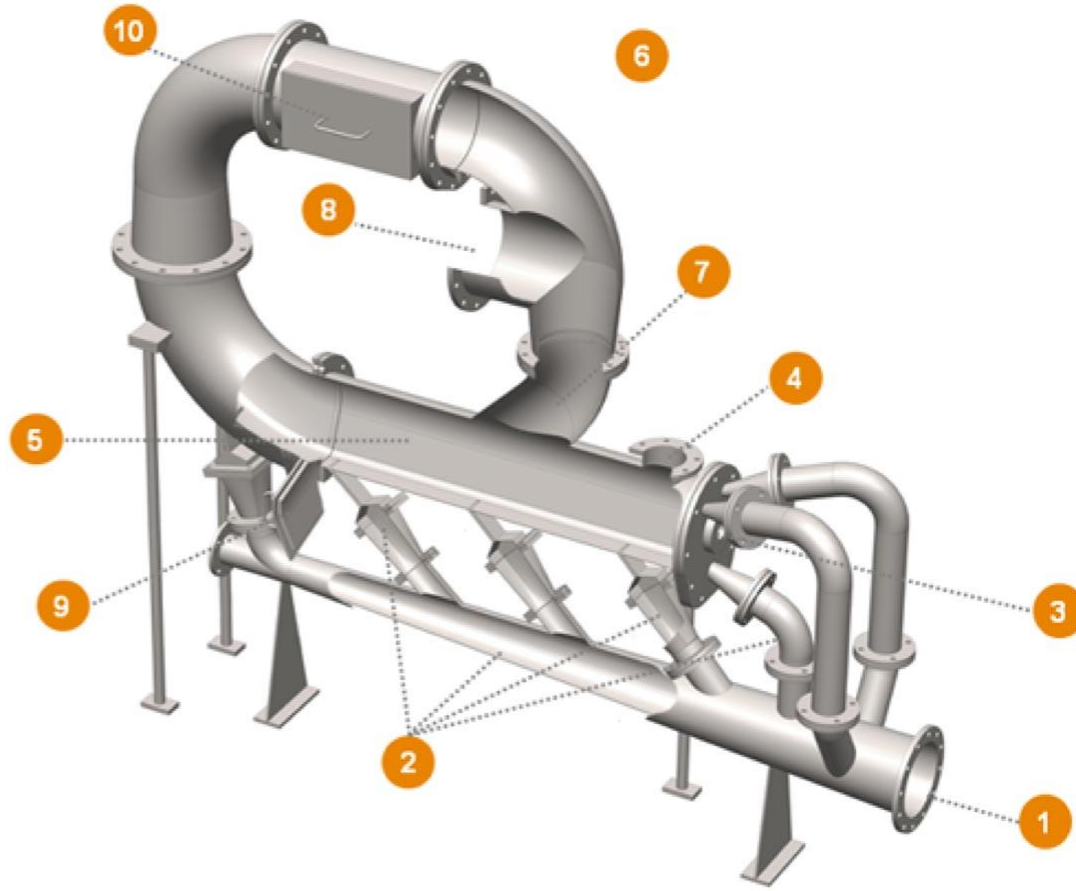
Chemical design (super)centrifuges

- Horizontal batch centrifuge
- Automatic discharge
- 1000 G mini speed
- 350 mm tot 2000 mm drum
- 9 to 1600 liter
- Maximum stability



Flash and spray dryers

- 1 Hot air (or N2) inlet
- 2 Hot air distributor
- 3 Feeding (solutions & susp.)
- 4 Feeding (wet solids)
- 5 Drying chamber
- 6 Rina-Jet® Turbo
- 7 Recycling
- 8 Exhaust. Dry product exit
- 9 Inspection door
- 10 Inspection gate



Geroldinger GmbH



- Founded in 1921 as a milling company. 70 people. Location Sigharting- Austria
- Since 1972, a mid-sized company in the field of bulk solids technology
- Storage, conveying, discharging and dosing
- Special silo and discharge systems for difficult products
- Design and delivery of Biomass plants
- Expert in handling of hygroscopic and cohesive products and segregation problems
- Turn key installations



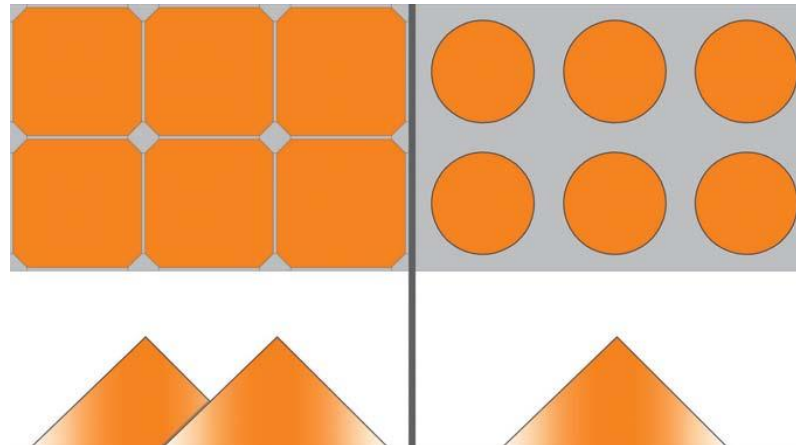
Geroldinger Silos



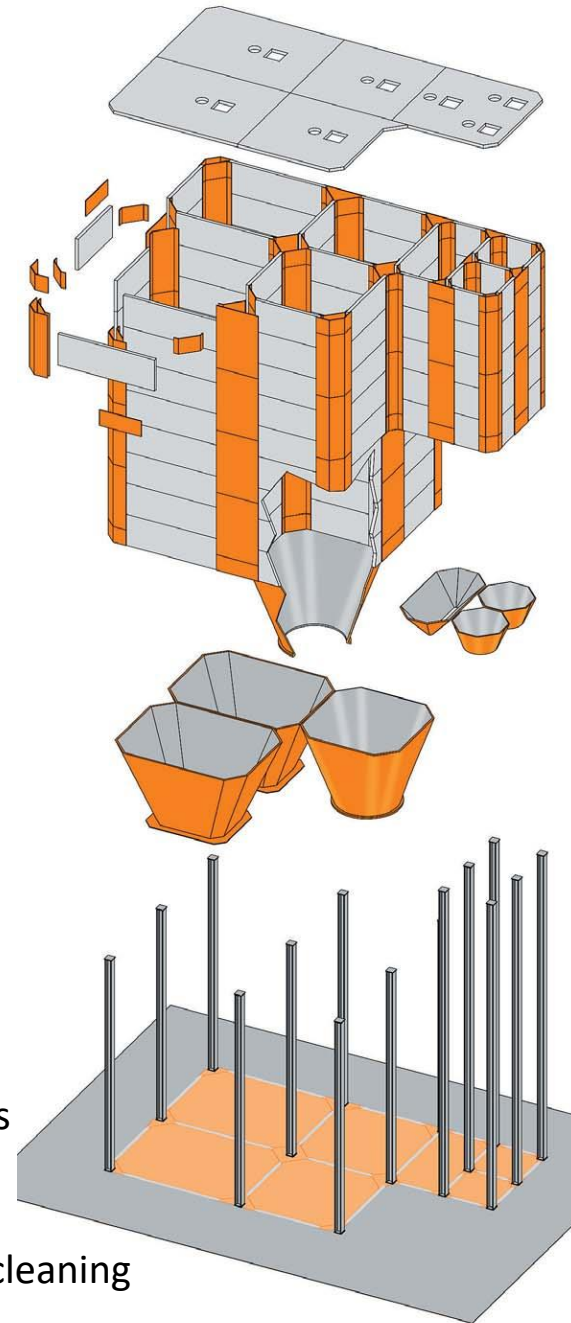
- Aluminum and (stainless) steel silos
- From 1 m³ to 1000 m³
- Storage of Urea, Melamine, Titan dioxide, Calcium Carbonate, Dry mortar, Cement, Starch, Gypsum, Talcum, (wheat)flower, Sugar, Salt, Pet food, SBS pellets and much more
- Delivery of filters, pneumatic and mechanical transport, level measurement equipment

Consulting, engineering, and process automation to production, installation, training and commissioning

Multigon silos



- » Optimum use of space
- » Significantly simplified maintenance and operation of the cells
- » Optimum insulation against condensation or heat
- » Complete emptying
- » Very suitable for all bulk solids which do not require silo wet cleaning
- » Low transport costs



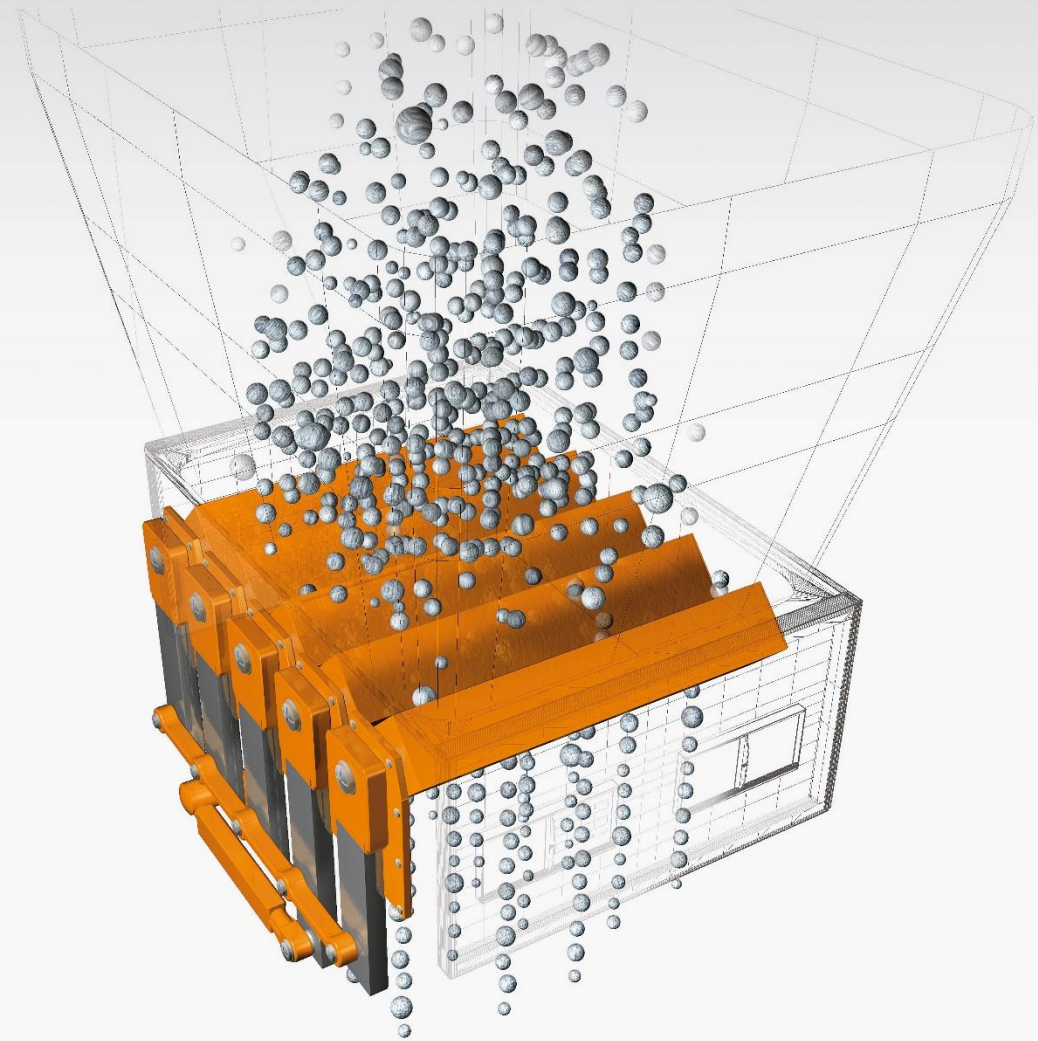
Oszillomat

This system has proven itself world-wide in all industries because for many hard-to-handle applications the Oszillomat is the only reliable solution for automated material flow.

Complete discharge of the hardest-to-handle bulk solids and precise volumetric dosing.

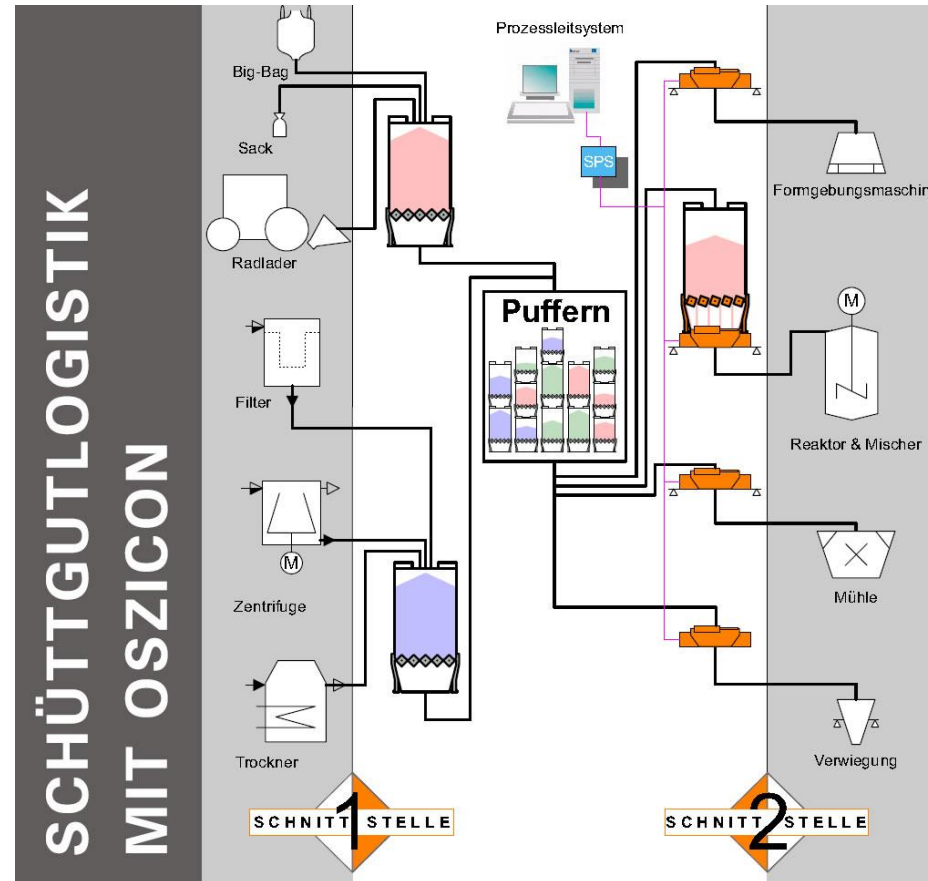
One hundred percent mass flow which ensures the mastering of even the hardest-to-handle bulk solids (titanium dioxide, urea, foil chips, plaster) is achieved through the even sinking of the solid column.

Flow disruptions such as funnel flow, bridge-forming, fluidisation of the bulk solid or shooting are reliably prevented, any segregation of the material are remixed at the outlet.



Oszicon

- > Combining processes user-defined with each other
- > Buffering the most different bulk solids space-saving in quantities of up to 2 m³ per container
- > Fast product changes within minutes by different containers which are supplied via a discharge station
- > Removing volumetrically or gravimetrically subsets from containers without leaving remaining quantities in the discharging station
- > Automatic dosing directly out of the container (continuously or discontinuously)
- > Safe discharge with variable performance



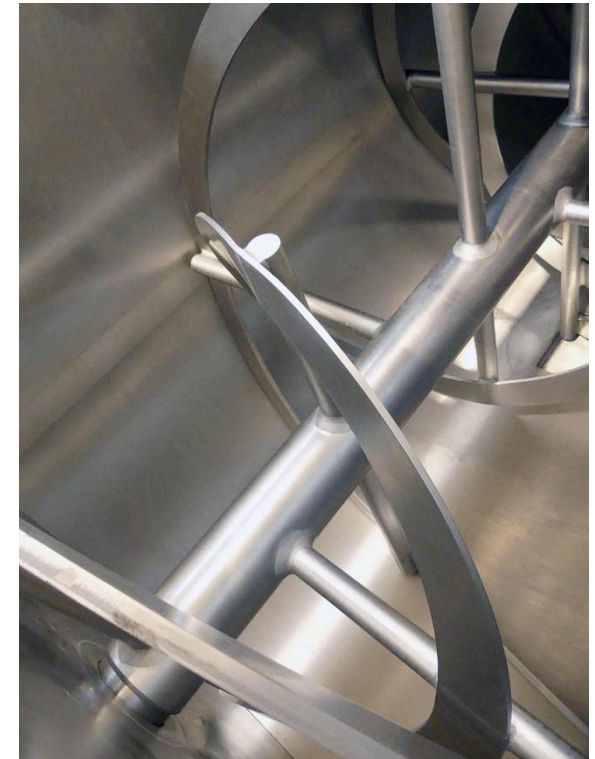
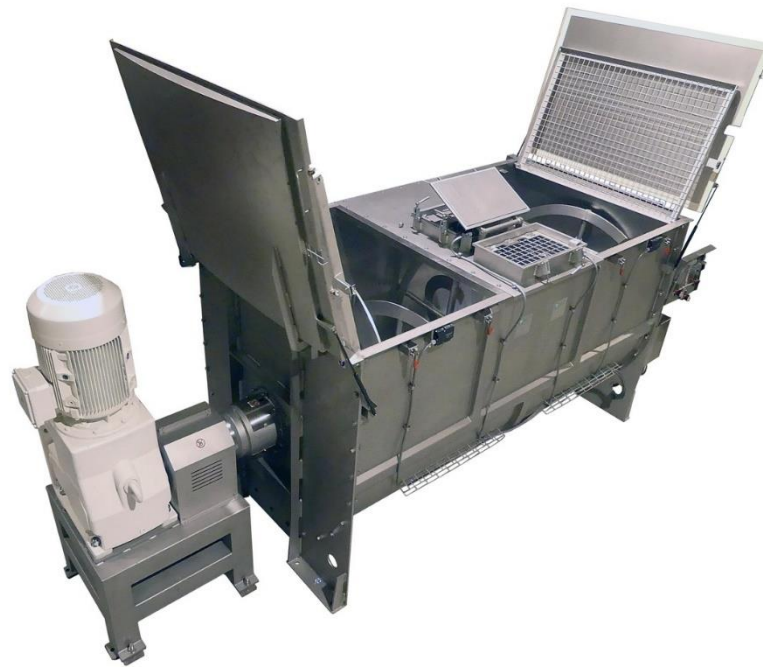
MC² Srl



- MC² Srl is an experienced producer of ploughshare, ribbon and peddle mixers. They are used in the industrie where powders and granulates has to be processed in an efficient way. These machines have a very good quality/price ratio.
- Located in Nonantola, Italië.
- More then 25 years of experiences.



MC² Srl



Bolz Intec GmbH



- Started in 1968 as Alfred Bolz. From 2008 on as Bolz Intec GmbH
- Located in Argenbühl (D)
- Stainless steel drums, pressure drums, special constructions, internal transport systems, washing units, valves (Cora), drum handling (Servolift)
- For applications with high hygienic demands. Toxic product handling (API)
- Pharmaceutical industry, bio industry, chemical industry
- Custom made solutions. Engineering department
- Electrolytic polishing to $Ra = 0.25 \mu m$ with in house baths
- Powders, pastes or liquids





Bolz Intec drums, process drums and accessories



Emission-free powder transfer system (EPTS)

Your transport solution for solids!



Environmentally friendly, product-protection, and in line with safety at work concepts.

The system:

The EPTS consists of a container that is equipped with two flap valves mounted at both openings. A funnel (for filling) and a CiP chamber (for cleaning the entire system) can optionally be mounted on the valve of the container top.

The flap valve on the outlet of the transfer container is provided with the particular connection to the reactor to be filled. In addition, a transport trolley specially designed for this system is also available.

Technical properties:

Volumes: 2 – 300 litres

Pressure: to 0.5 bar / vacuum

Surface quality, process side: $RA < 0,25 \mu m$ electropolished

Surface quality, all others: $RA < 0,8 \mu m$ electropolished

Materials/process side: Hastelloy HC22 (optional), 1.4435 AISI 316L

All others: 1.4301 AISI 304

Seals: EPDM and/or PTFE (FDA-approved)



Cora valves for applications in the
pharmacy, food en chemical industries

CORA



Thank you for your attention!



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