



Presentation by

WinProcess

Your partner for process solutions

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WinProcess in The Netherlands is an agent for suppliers who are active in the field of mixing, drying, reacting, filtration/separation, drums, pressure drums, funnels and valves.

For the Benelux area WinProcess represents these partners:



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



Ploughshare mixers and ribbon blenders



Filter presses, manual, semi-automatic, full automatic



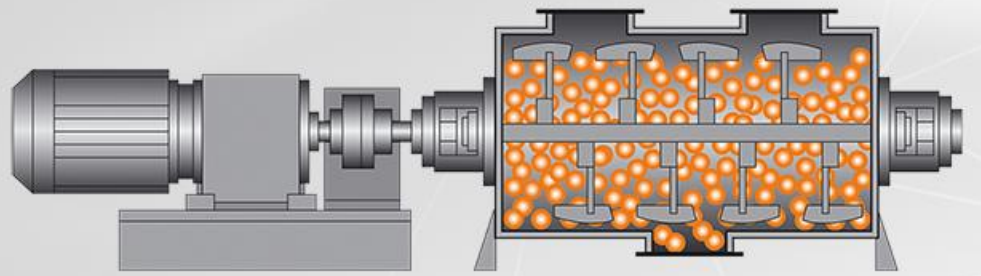
Stainless steel drums, pressure drums, washing units, valves, custom made designs

BHS-Sonthofen GmbH

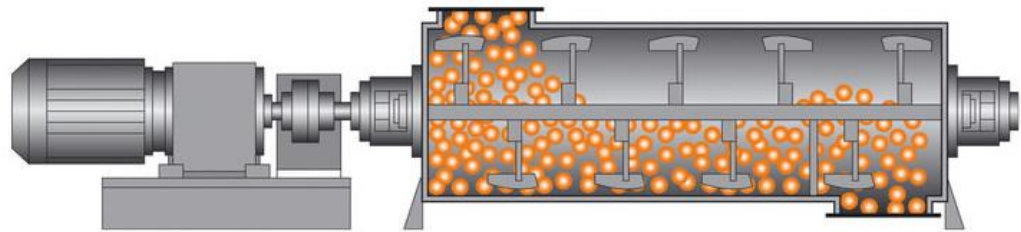
BHS
SONTHOFEN

- 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 GmbH





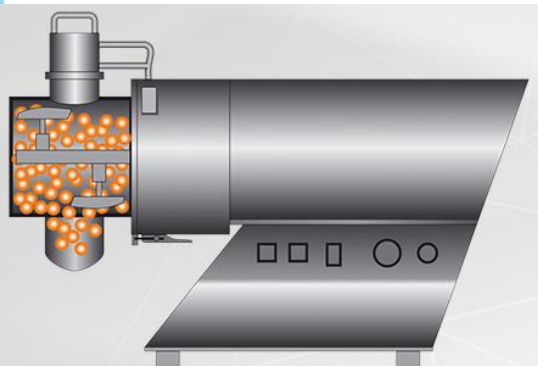
Batch horizontal



Continue horizontal



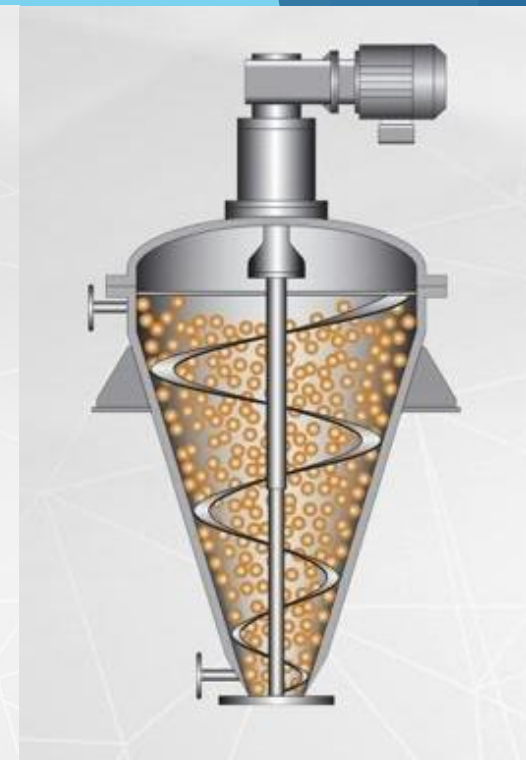
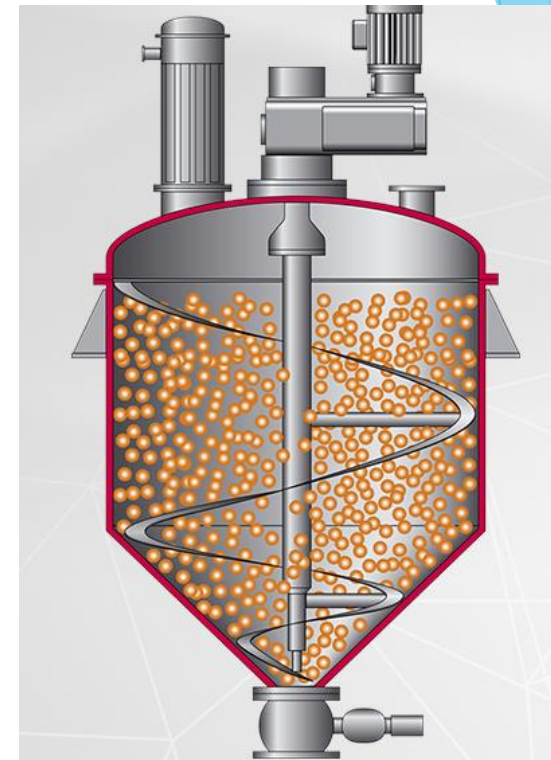
Continue ring layer



Laboratorium



Mixers



Batch vertical

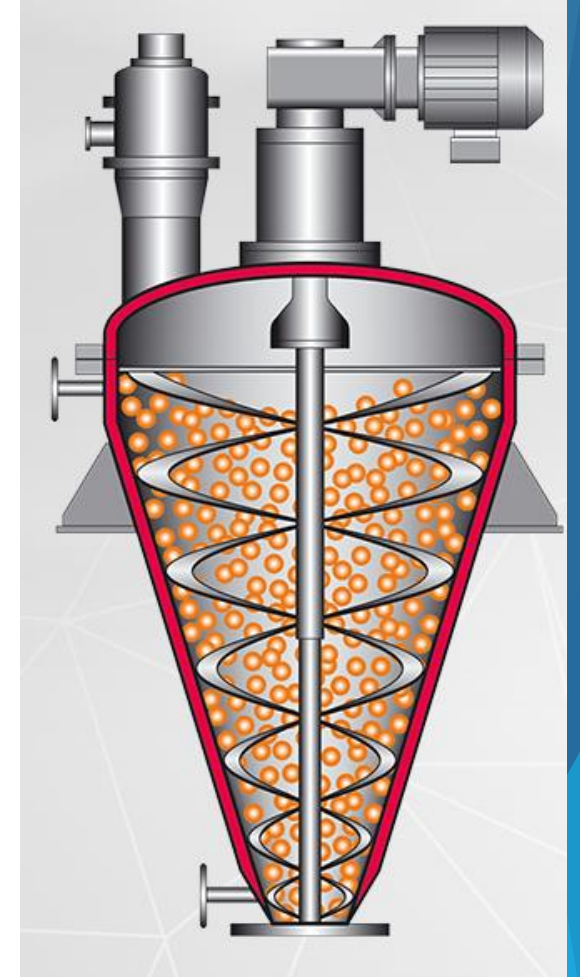
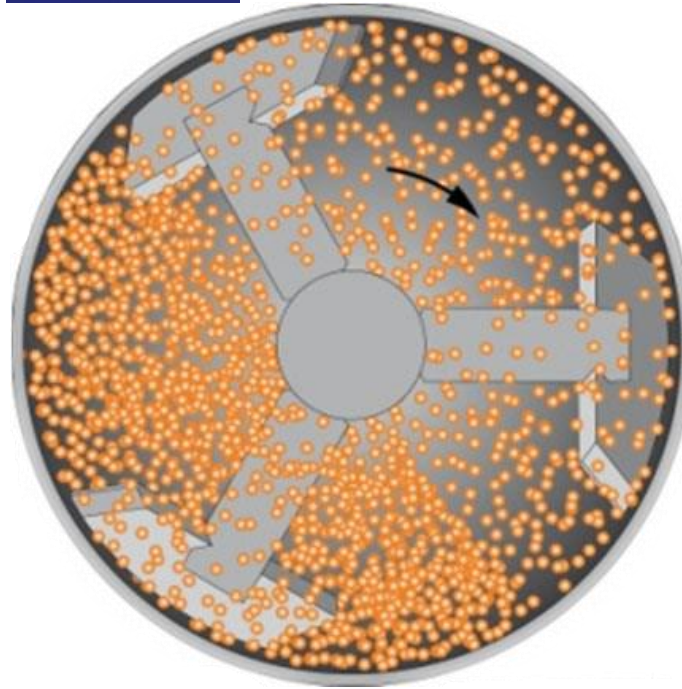
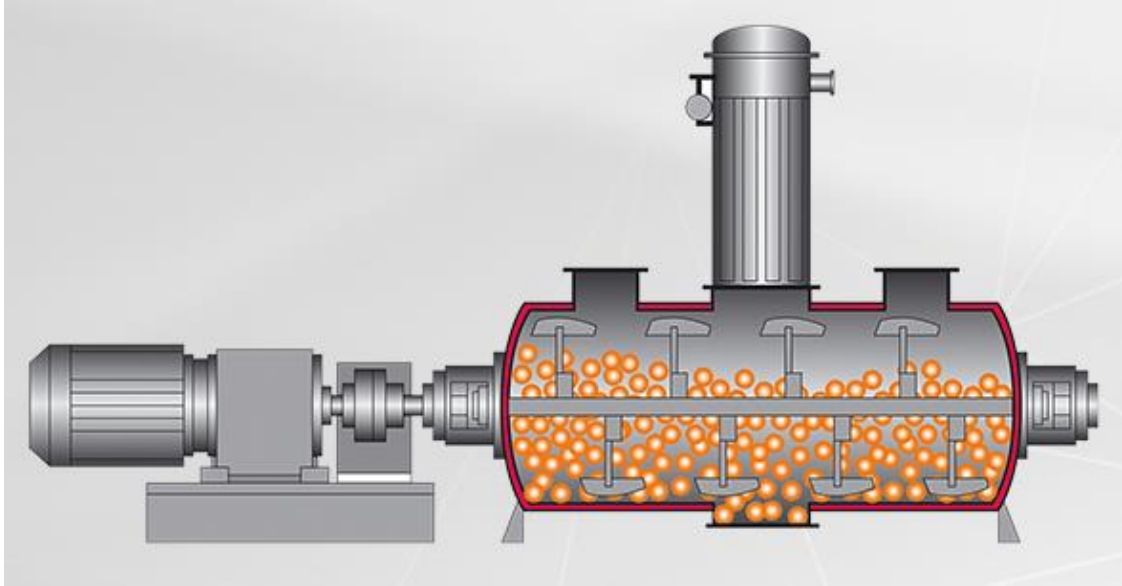
Batch mixers:

- 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



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



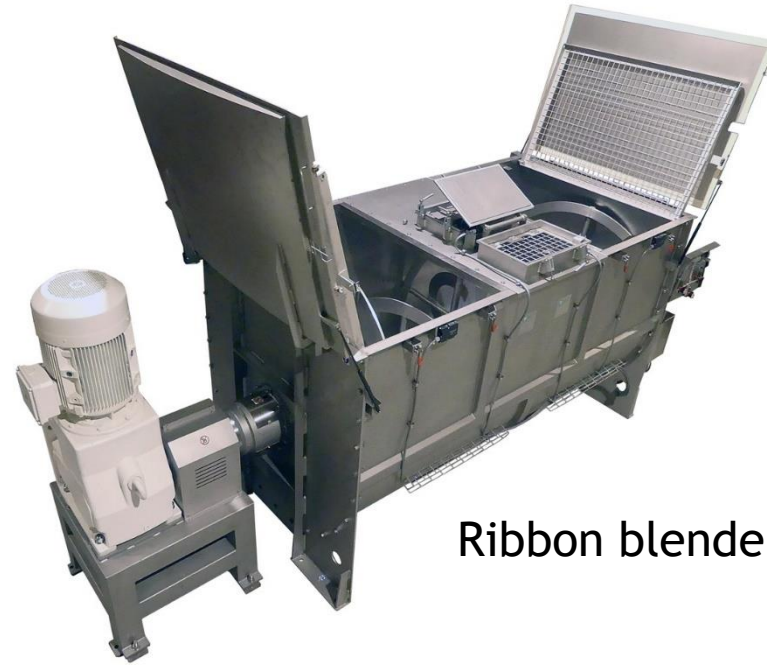
MC² Srl



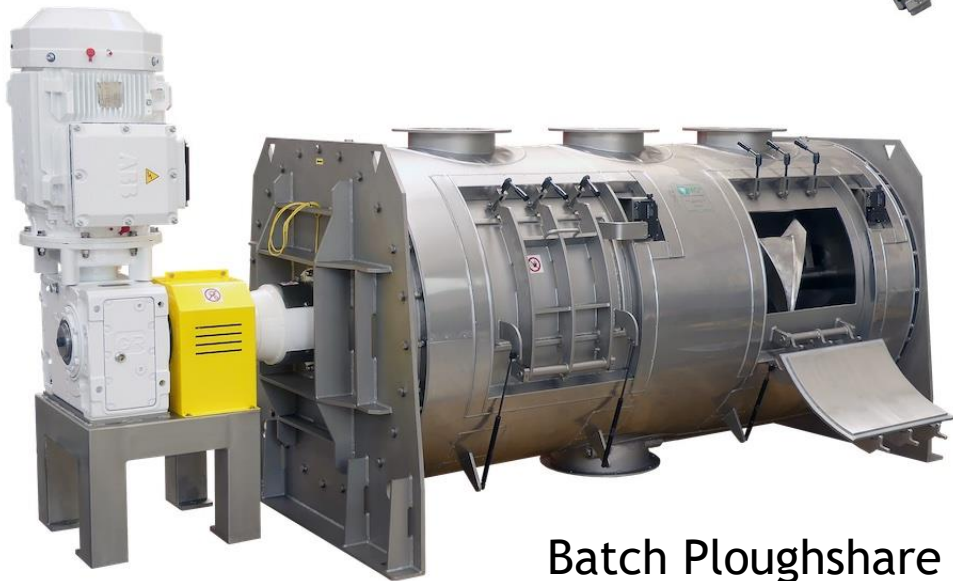
- MC² Srl is an experienced producer of ploughshare, ribbon and peddle mixers. The mixers are used in the industrie where powders and granulates has to be processed in an efficient way. These machines have a very good quality/price ratio.
- Located in Nonantola and Bologna, Italy.
- More then 25 years of experiences.
- Standard machines and custom made machines
- Test facility and rental machines available



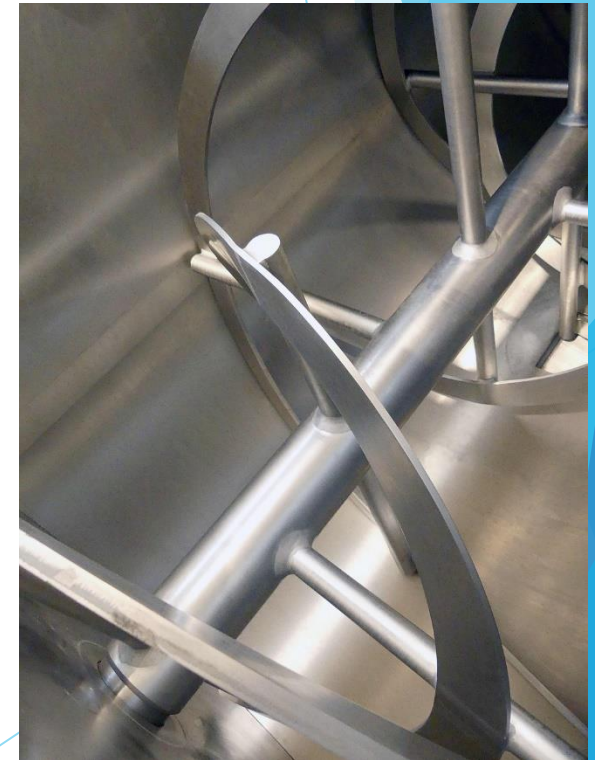
MC² Srl



Ribbon blender



Batch Ploughshare
mixer



AQUACHEM GmbH Separationstechnik

- James Babbé's worked for what was then the largest filter press manufacturer in North America.
- As a representative for southern Germany, he gained deep insights into the topics of filtration and filter presses very early on.
- Order for three of his self-developed fully automatic filter presses in 1991 for cement manufacturer Dyckerhoff
- 'AQUACHEM GmbH Separationstechnik' was founded in 1996
- Over 30 people with an annual turnover of EUR 8 million
- Sold more than 1,000 filter presses, 190 of them are fully automatic filter presses.
- Roxia Oy cooperation since July 2022



AQUACHEM full automatic filter press AF series



- no leakage of the suspension during the filtration cycle
- machine availability of up to 98% guaranteed
- fully automatic operation without supervision
- low life cycle costs
- 24/7 operation
- comparable investment to conventional presses - the AF automatic filter requires less filter surface for the same performance
- lower disposal costs due to the higher dry matter content in the filter cake
- up to 10 times the throughput in $l/m^2 \cdot h$ compared to conventional chamber filter presses
- compact and robust construction - with the same format, our fully automatic filter press requires only around one sixth of the space of a conventional press
- maximum safety in operation
- low-maintenance and -friendly

AQUACHEM manual filter press EC series



- easy emptying by the operator
- clean and sealed design - no leakage of the medium
- closed filtrate outlet
- use of high quality materials
- adaptation of the filter press to your exact needs
- phosphated and powder-coated frame ensures protection of the filter press

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: $RA < 0,25 \mu\text{m}$ electropolished

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

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

All others: 1.4301 AISI 304

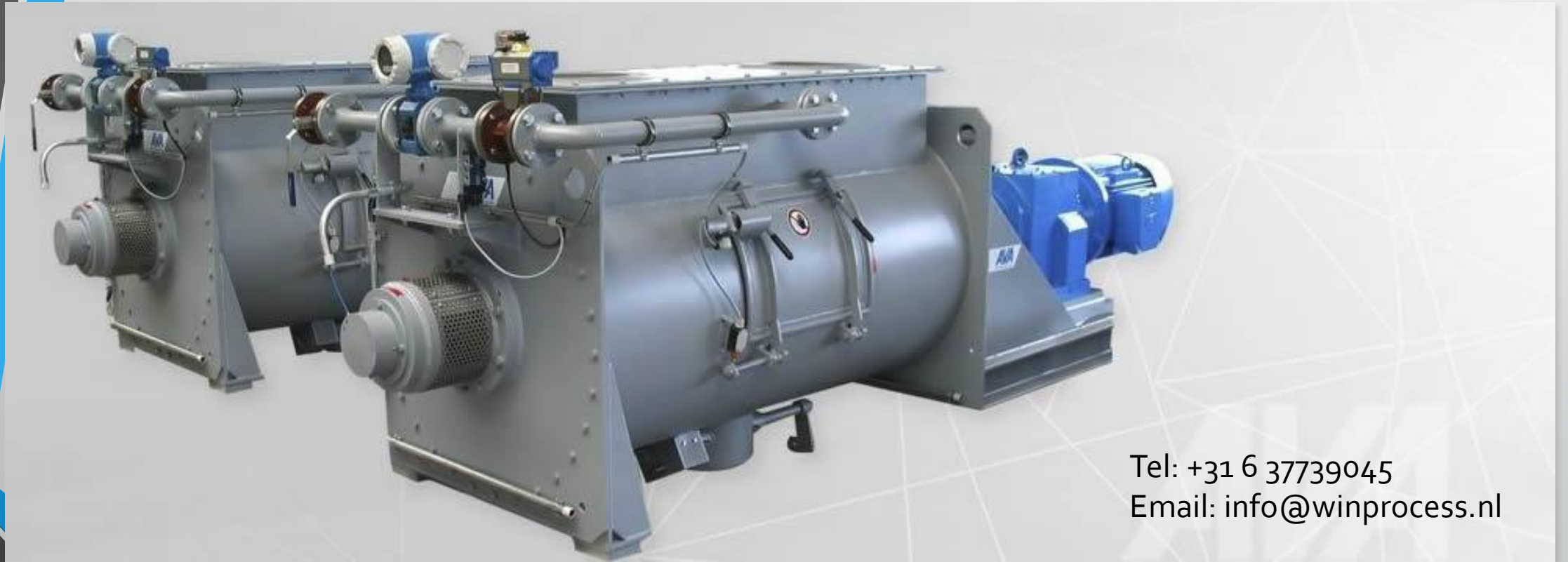
Seals: EPDM and/or PTFE (FDA-approved)



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



Thank you for your attention!



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