

# CONICAL SCREW MIXERS TYPE HV



SCANNEN FÜR MEHR



CHEMICAL INDUSTRY



PHARMA INDUSTRY



COSMETICS



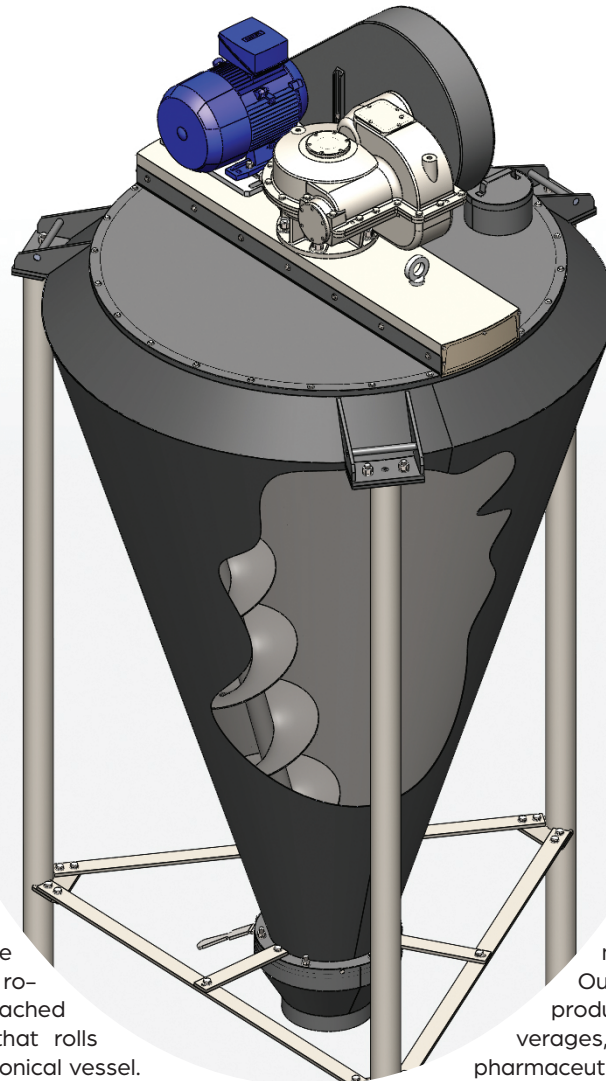
FOOD &amp; BEVERAGES



BIOTECHNOLOGY



ENVIRONMENTAL



The PHARMIX conical screw mixer uses the well-known design of a rotating mixing screw attached to an orbiting arm that rolls along the wall of the conical vessel. These devices are typically used for intensive but gentle mixing and homogenization of bulk mixtures and find a wide range of applications from food and beverage preparation, through the production of pharmaceutical products, to ho-

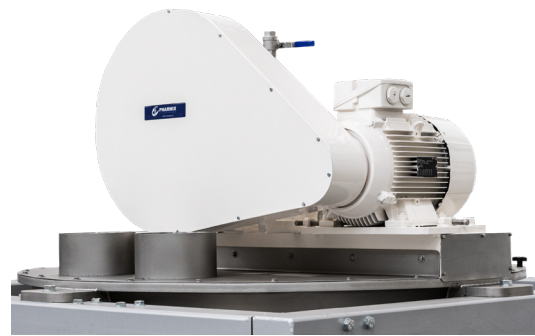
mogenization of chemicals and paints. Our mixers are used in the production of instant beverages, soups, coffee blends, pharmaceutical drugs, vitamins, compound feeds and many other products. They are characterized by guaranteed mixing accuracy and excellent degree of homogeneity (1:100000).

## STANDARD VERSION

- The mixer vessel, the mixing screw and the top covers are made of stainless steel AISI 304 (1.4301)
- Wall thickness of the mixing vessel 2.5 mm, inner surface hand ground Ra 1,6 to 3,2 µm
- Outer surface Balotina (glass blasting)
- The other components such as the arm, drive, carrier, and gearbox are made of carbon steel in combination with gray cast iron
- All parts in contact with the product are ground smooth, including the weld seams. The gearbox, motor and carrier are painted.
- The screw mixer is equipped with a manually rotatable butterfly outlet for discharging the mixed product.
- PHARMIX Gearbox with a belt drive



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Gearbox with a belt drive



NORD bevel gear drive



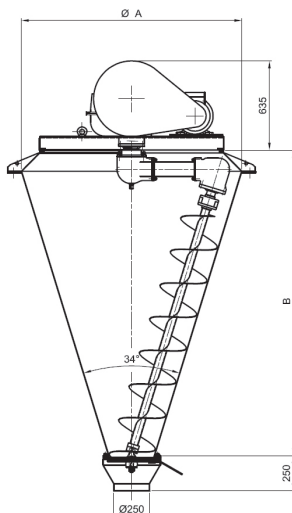
Version on a mobile frame

## SPECIAL VERSIONS & OPTIONS

- Version of the screw mixer made entirely of stainless steel. The parts in contact with the product are made of stainless steel AISI 316L (1.4404)
- Pharma/food version – bowl and mixing screw ground to Ra < 0,8 µm
- High-gloss polished surface of bowl and mixing screw to Ra < 0,05 µm
- The mixing screw is coated with carbide or ceramic composite material to mix highly abrasive mixtures
- Vessel with a double jacket design & insulation for heating/cooling the mixing product.
- The hopper is equipped with an inspection door
- Vessel strain gauge weighing
- Injection of liquids into the conical screw mixer through the hollow drive shaft (moistening of the mixture, injection of additives, flavors, oils)
- Outlet with pivoted gate valve LAFONTAINE
- Outlet with pneumatically operated gate valve LUCAVAL or SISTAG Wey
- NORD bevel gear drive and reinforced drive arm for larger mixing volumes / up to 5,000 l / and materials that are more difficult to mix
- Cantilevered mixing screw without the bottom bearing
- Lump breaker 3 kW, 400 V–50 Hz, 1450 rpm



Inspection door



| Model         | Working volume (l) | A (mm) | B (mm) | Motor (kW) | Weight (kg) |
|---------------|--------------------|--------|--------|------------|-------------|
| <b>HV50</b>   | 50                 | 730    | 860    | 0,75       | 250         |
| <b>HV100</b>  | 100                | 822    | 1010   | 1,1        | 300         |
| <b>HV200</b>  | 200                | 1178   | 1315   | 2,2        | 550         |
| <b>HV300</b>  | 300                | 1300   | 1515   | 3          | 600         |
| <b>HV600</b>  | 600                | 1492   | 1829   | 3          | 650         |
| <b>HV1000</b> | 1000               | 1300   | 2169   | 3          | 700         |
| <b>HV1500</b> | 1500               | 1492   | 2485   | 4          | 800         |
| <b>HV2000</b> | 2000               | 1640   | 2725   | 4          | 900         |
| <b>HV3000</b> | 3000               | 1920   | 3185   | 5,5        | 1000        |
| <b>HV5000</b> | 5000               | 2948   | 4130   | 11+1,1     | 3000        |