## **YSTRAL X-Batch Disperser**

# Dispersing according to the Rotor-Stator-Principle

### **Highest shear gradients**

The very fine distribution of solids (suspensions) and liquids (emulsions) in a basic liquid is achieved by a perfectly balanced interaction of different forces to reduce particle sizes.

Highly precise dispersing tools are individually adapted to the respective processing task.

#### The essential advantages:

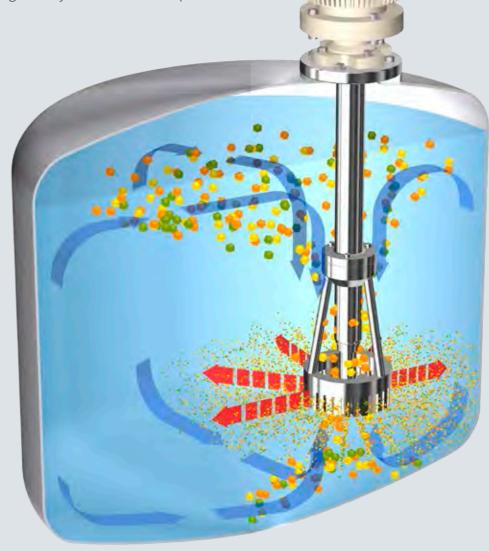
- Robust rotor-stator-tools with a narrow radial gap provides a high shear gradient
- Using impact combined with a high frequency of compression and decompression processes, a very strong dispersing effect is achieved
- Solid components and/or droplets are reliably reduced in size and homogeneously distributed
- Different rotor-stator pairings allow an adaptation to the respective application
- Batch dispersing directly inside the vessel
- No rotation of the contents in the vessel no Vortex builds up and no air is incorporated
- No free running shaft and dispersing tools
- Installation into the vessel from top, bottom, side or mounted on a moveable lift





### The function of the YSTRAL X-Batch Disperser:

- Robust rotor-stator-tools with a narrow radial gap provide a high shear gradient.
- Impact and highly frequent pressure and decompression occurrence results in a strong dispersing effect.
- Solid components and/or droplets are reliably reduced in size and homogeneously distributed in the liquid.



#### Technical Data

1,5 - 55 kW
230 / 400 V, 50 Hz, special voltages possible
1.500 / 3.000 min $^{\text{-1}}$ , infinitely variable speed up to 3.600 min $^{\text{-1}}$ with a frequency converter
coated aluminium, stainless steel 1.4404 (AISI 316 L)
stainless steel 1.4404 (AISI 316 L), special materials
Lip seal, mechanical seal single or double action depending on operating conditions
10 - 54 m/s
explosion proof execution, certifications, qualifications

