

# 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

<b>Power</b>	1,5 – 55 kW
<b>Voltage</b>	230 / 400 V, 50 Hz, special voltages possible
<b>Speed</b>	1.500 / 3.000 min <sup>-1</sup> , infinitely variable speed up to 3.600 min <sup>-1</sup> with a frequency converter
<b>Bearing flange</b>	coated aluminium, stainless steel 1.4404 (AISI 316 L)
<b>Submersed parts</b>	stainless steel 1.4404 (AISI 316 L), special materials
<b>Seal</b>	Lip seal, mechanical seal single or double action depending on operating conditions
<b>Peripheral speed</b>	10 – 54 m/s
<b>Options</b>	explosion proof execution, certifications, qualifications

