

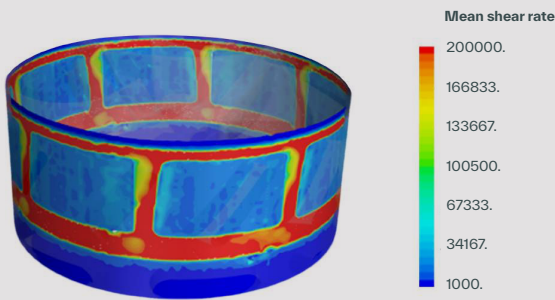
MixSing Vacuum

Key benefits

- Stable emulsion
- Perfect dispersion of powders
- Low incorporation of air
- Noise <78 dB(a)
- Low utility consumption
- Hygienic design
- Ease of maintenance
- CAPEX & OPEX optimised
- EHEDG, EC 1935 and CE marked



Shear performance 2600 rpm



Operations

Creating the perfect suspension without particle separation or the quintessential emulsion, the MixSing caters for your needs.

The impeller vortex effect forces the ingredients through the impeller / stator construction where the product will be exposed to high shear forces up to 200,000 s⁻¹ reducing the size of the particles.

The high shear unit is designed for operation between 300 - 3600 rpm.

Design basis

Computational Fluid Dynamics form the basis of the design development and optimisation.

Experienced resources created a virtual model and arranged a simulation of flow & shear patterns, vacuum effect on flow, cavitation risk, visualisation of flow, shear, CIP-ability, baffle design, wear and strength analyses. A physical unit was tested for operational performance to confirm the advanced and optimised design.



Application integration

Batch, in-line or continuous mixing – no limitation. Designing the right process for your product recipe and adapting it as your process needs changes, the MixSing facilitates your requirements.



Dairy

- Recombined milk products
- Flavoured milk
- Baby/infant formula
- Nutritional
- Fat filled product
- Cappuccino foamer
- Protein standardisation
- Ice cream
- Non-dairy creamer
- Condensed milk
- Sweetened condensed milk



Beverage

- Sugar solvers
- Syrup preparation
- Stabiliser blends
- Juices and nectars
- Soft drinks
- Smoothies
- Whey based drinks
- Sports & energy drinks



Contact us for other applications

Design

- Mixer system
 - Standard motor
 - Frequency inverter
 - Shaft seal and drive
 - Impeller & stator system
- Vacuum system
 - Liquid ring pump
 - Frequency inverter
 - Service water
- Pressure sensor
- Product outlet valve
- Powder valve(s)
- Level switches
- Manway
- Non-foam inlet
- CIP spray balls (2 pcs.)
- Sight glass with lamp
- Sight glass with wiper
- Adjustable feet
- Other requirements

Technical data

	Unit	500	1500	3000	6000
Power installed	kW	14 - 25	25 - 48	35 - 60	45 - 110
CIP	m ³ /h @ 2 bar(g)	12	12	12	12
Service water	l/h	350 - 1500	350 - 1500	350 - 1500	350 - 1500
Compressed air	nl/min @ 7 bar(g)	Negligible consumption variable with production			
Dimensions HxWxD	m	3.2 x 1.0 x 1.0	3.8 x 1.3 x 1.3	4.4 x 1.6 x 1.6	5.1 x 2.1 x 2.1
Shipping weight	kg	592	985	1525	2735
Shipping volume	m ³	4	9	15	30

*customisation/products can alter values