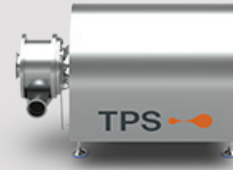


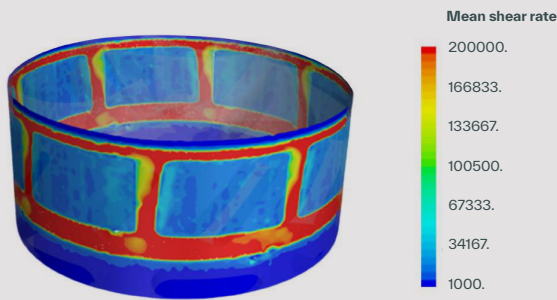
MixSing Shear

Key benefits

- Small particle size
- Stable emulsion
- Noise <78 dB(a)
- Low utility consumption
- High outlet pressure
- 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.

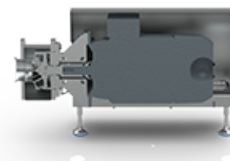
The impeller vortex effect forces the ingredients through the impeller / stator construction where the product will be exposed to high shear forces up to 200,000 s⁻¹ reducing the size of the particles.

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
- Ice cream
- Non-dairy creamer
- Condensed milk
- Sweetened condensed milk

Contact us for other applications



Beverage

- Sugar dissolvers
- Syrup preparation
- Stabiliser blends
- Juices and nectars
- Smoothies



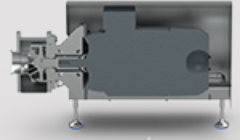
Prepared food

- Sauces
- Mayonnaise
- Mustards
- Ketchup
- Dips
- Salad dressings
- Fruit preparations
- Hummus



Personal care

- Gels
- Creams
- Soap and gels
- Shampoo
- Lotions



Design

- Mixer system
 - Standard motor
 - Frequency inverter
 - Shaft seal and drive
 - Impeller & stator system
- Service water system
 - Product inlet/outlet
 - Pump protection shield
 - Pump console
 - Service valves for water flush
- Other requirements

Technical data

	Unit	20	40	80
Power installed	kW	5.5	7.5	11
CIP	m ³ /h @ 2 bar(g)	-	-	-
Service water	l/h	60	60	60
Dimensions HxWxD	m	0.6x 0.6x 0.7	0.6x 0.6x 0.8	0.6x 0.6x 0.9
Shipping weight	kg	125	130	150
Shipping volume	m ³	0.5	0.5	0.5

*customisation/products can alter values