

ABOUT THE ULTRA MIXMASTER

The **Ultra MixMaster** is a very powerful self-pumping ultra-mixer:

- Extreme shear rate up to $120.000S^{-1}$
- Homogenizing effect equivalent to 50-80 Bar
- Low CAPEX/OPEX compared to homogenizing effect
- Low service cost
- Designed according to EHEDG
- Test unit is available for trials

The **Ultra MixMaster** is developed for products with low to medium viscosities.



SPECIFICATIONS

The **Ultra MixMaster** is a very powerful Ultra High Shear mixer with a shear rate up to $120.000S^{-1}$.

The mixer works according to the rotor-stator principle, where a special closed mixing wheel passes the product through the patented stator.

For some applications the Ultra MixMaster can replace a low-pressure homogenizer. The Ultra MixMaster has a homogenising effect is equivalent to 50-80 Bar.

The Ultra MixMaster can create homogenization down to 1 μ m lump free.

The mixer unit is very versatile and can be used in many setups and applications. For low to medium viscosity the mixer performs the out-pumping action itself.

For high-viscose applications (>500cp) the setup requires positive feeding.

APPLICATIONS

The **Ultra MixMaster** has been optimised for mixing of a wide range of products, e.g.:

- Batch operation - the ultra-mixer is placed as a outlet pump and gives the product an extra boost.
- Inline setup - the mixer is placed between the process vessels and operates in single pass. for some applications the mixer works as a light homogenizer.
- Emulsification, reduction of droplet size and shear of slurries, concentrates and pigments

For other application possibilities, please contact Daniatech.

EQUIPMENT

STANDARD EQUIPMENT:

Mixer unit (WEG) (230/400V 50Hz) with shaft sealing (to be frequency controlled)
Tri-clamp inlet/outlet
Motor Cover
Frame with 4 feeds

OPTIONS

Double mechanical shaft seal with Bürkert (1/8") solenoid valve and throttle valve
Manual regulating seat valve to adjust outlet flow (unique SSV Ø51)
Bypass loop for extra recirculation over mixer
Fitting SMS DIN/ISO. Other on request
Other motors, Nema, Exx & etc. on request.
Start/stop Box with soft starter
Start/stop Box with frequency inverter

TECHNICAL DATA

Model:	Motor	Flow	Shear Rate	Inlet pressure
Ultra MixMaster 32 - 250 - 18.5	18,5 kW	10-40 (5 Bar) m ³ /h	Up to 120,000 S ⁻¹	0.5 - 5 Bar
Ultra MixMaster 32 - 250 - 22	22 kW	10-50 (5 Bar) m ³ /h	Up to 120,000 S ⁻¹	0.5 - 5 Bar

Model:	Outlet pressure	Service Water*	Weight	Dimensions (H x W x D)
Ultra MixMaster 32 - 250 - 18.5	2,5 - 7 Bar	20 L/h	210 kg	908 x 460 x 930 mm
Ultra MixMaster 32 - 250 - 22	2,5 - 7 Bar	20 L/h	225 kg	908 x 680 x 1150 mm

