

# Ultra MixMaster

## 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

## Specifications

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

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 $\mu$  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-viscous applications (>500cP) the setup requires positive feeding. For other application possibilities, please contact Daniatech.

## Applications

The Ultra MixMaster can operate with different products and in different setups:

- **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



## Equipment

### STANDARD EQUIPMENT

Mixer unit (WEG) (230/400V 50Hz) with shaft sealing (to be frequency controlled)

Tri-clamp inlet/outlet

Motor cover

Frame with four legs

### OPTIONS

Double mechanical shaft seal with solenoid valve and throttle valve

Bypass loop for extra curculation over mixer

Fitting SMS DIN/ISO. Other on request

Other motors, Nema exx & etc. on request.

Manual regulating seat valve to adjust outlet flow (unique SSV Ø51)

Start/stop box with soft starter

Start/stop box with frequency inverter

## Technical data

Model	Motor	Flow	Shear rate	Inlet pressure
Ultra MixMaster 40 - 250 - 18.5	18.5 kW	10-40 (5 bar) m <sup>3</sup> /h	Up to 120,000 S <sup>-1</sup>	0.5 - 5 bar
Ultra MixMaster 40 - 250 - 22	22 kW	10-50 (5 bar) m <sup>3</sup> /h	Up to 120,000 S <sup>-1</sup>	0.5 - 5 bar

Model	Outlet pressure	Service water*	Weight	Dimensions H x W x D
Ultra MixMaster 40 - 250 - 18.5	2.5 - 7 bar	20 l/h	210 kg	908 x 460 x 930 mm
Ultra MixMaster 40 - 250 - 22	2.5 - 7 bar	20 l/h	225 kg	908 x 680 x 1150 mm