

Daniatech DTM BasicMaster



The DTM BasicMaster (patent pending) represents the next generation of mixing solutions for the process industry.

Not only is it more compact and perfectly optimized for energy-efficient high shear mixing, it is also virtually maintenance-free.

Powder is added manually through the man hole and is instantly incorporated into the liquid. The mixer generates a controlled vortex in the tank, which contributes to separating air from the liquid and generates a perfect homogenous dispersion within seconds.

The result is a highly stable and homogenous end product, which is lump-free and contains a minimum of air.

Depending on the selected options, the mixer can be used as a batch mixer or as an in-line mixer. For in-line mixing a circulation loop is required.

Applications:

The DTM BasicMaster has been optimized for mixing of a wide range of products, e.g.:

- Products for spray drying, soft drinks, ice cream, sugar solutions, pectin solutions, syrup, slurries, soups, etc.
- Recombined milk-based products

The DTM BasicMaster is the most energy efficient and flexible mixer on the market:

- Low energy consumption/high efficiency
- High shear rate
- High mixing effect
- Fast and easy installation
- Low service costs - few wear parts
- Hygienic design in compliance with EHEDG
- Step-file available on inquiry

The DTM BasicMaster is developed for products with low to medium viscosities and is designed with a directly driven high shear mixer at the bottom.

The final product must be pumpable using a standard centrifugal pump – viscosity up to 2000 cP. For viscosity above 2000 cP, a DTM process mixer is required.

Standard equipment:

- Mixer unit (WEG) with flushed mechanical shaft seal (requires frequency control)
- Man hole with safety net and safety switch
- 1 x outlet valve (butterfly)
- 1 x liquid inlet
- 2 x rotating spray balls
- 2 x level sensors - top & bottom (E&H Liquiphant)
- Fittings: TRI-Clams, SMS or DIN-ISO

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Options:

- Extra top inlet/sampling
- Sack delivery chute
- Level control pressure transmitter/control valve for level control with tangential side admission
- Load cells with transmitter in stainless steel box
- Outlet pump (must be equipped with frequency converter, if used as inline mixer)
- MCC panel with frequency inverters
- Insulated jacket

Technical data:

Model:	Mixer size	Product density	Viscosity	Mixereffect	Powder volume
DTM 250L V	160	1-1,05 kg/l	1-500 cp	11 kW	50 kg/min
DTM 250H V	160	1,05-1,35 kg/l	500-2000 cp	18,5 kW	50 kg/min
DTM 500L V	160	1-1,05 kg/l	1-500 cp	18,5 kW	50 kg/min
DTM 500H V	160	1,05-1,35 kg/l	500-2000 cp	22,5 kW	50 kg/min
DTM 1000L V	200	1-1,05 kg/l	1-500 cp	22 kW	100 kg/min
DTM 1000H V	200	1,05-1,35 kg/l	500-2000 cp	30 kW	100 kg/min
DTM 2000L V	250	1-1,05 kg/l	1-500 cp	45 kW	150 kg/min
DTM 2000H V	250	1,05-1,35 kg/l	500-2000 cp	55 kW	150 kg/min
DTM 3000L V	325	1-1,05 kg/l	1-500 cp	55 kW	200 kg/min
DTM 3000H V	325	1,05-1,35 kg/l	500-2000 cp	75 kW	200 kg/min
DTM 5000L V	325	1-1,05 kg/l	1-500 cp	75 kW	300 kg/min
DTM 5000H V	325	1,05-1,35 kg/l	500-2000 cp	90 kW	300 kg/min

Model:	Outlet/U	CIP	Inlet	Dimensions (H x W x D)	Shipping weight	Shipping volume
DTM 250L/H	Ø51/650mm	Ø51	1xØ51	2200 x 1200 x 900 mm	500 kg	2 m ³
DTM 500L/H	Ø51/650mm	Ø51	1xØ51	2400 x 1300 x 1000 mm	700 kg	2,5 m ³
DTM 1000L/H	Ø63,5/650mm	Ø51	1xØ51	3400 x 1400 x 1200 mm	1000 kg	4,5 m ³
DTM 2000L/H	Ø63,5/1000mm	Ø51	2xØ51	3800 x 2000 x 1700 mm	1400 kg	10,5 m ³
DTM 3000L/H	Ø76/1200mm	Ø51	2xØ51	4300 x 2500 x 2000 mm	1600 kg	16,5 m ³
DTM 5000L/H	Ø76/1200mm	Ø51	2xØ51	4600 x 2600 x 2200 mm	1700 kg	21 m ³