

Daniatech DTM ProcessMaster



The DTM ProcessMaster (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.

By means of vacuum, the powder is drawn from the funnel into the mixer below liquid level and instantly wetted.

The powerful, high shear mixer and scraper agitator generates a controlled vortex in the tank. The combination of vortex and vacuum effectively separates air from the liquid and generates a perfect homogenous dispersion within seconds.

The unit comes with an insulated jacket for quick heating and cooling with steam or ice water. For extra quick heating the unit can be equipped with direct steam valves.

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

Applications:

The mixer is used for mixing of sauce, mayonnaise (max. 1000 kg) dressing, gels, cream, emulsion, etc. Homogenization down to 3 my lump free and viscosity up to 50.000 cP.

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

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

The DTM ProcessMaster is developed for products with medium to high viscosities and is designed with a directly driven high shear mixer at the bottom and top mounted agitator.

Standard equipment:

- Mixer unit (WEG) with flushed mechanical shaft seal (requires frequency control)
- Vacuum pump with water-saving unit (requires frequency control)
- Insulated Steam/cooling jacket flange connection
- Scraper agitator with SEW gear (incl. inverter)
- 3-way valve for CIP of vacuum pipe
- Man hole with safety sensor
- Inspection glass with wiper / inspection glass with LED light source (Lumiglas)
- 2 x powder valves with Alfa Laval LKLA actuator (butterfly)
- 1 x outlet valve with Alfa Laval LKLA actuator (butterfly)
- 2 x rotating spray balls with 3-way valve from vacuum pipe (Alfa Laval Uniq type 21)
- 2 x level sensors top & bottom (E&H Liquiphant)
- Temperature transmitter (WIKA)
- Pressure sensor (WIKA)
- Fittings: TRI-Clams, SMS or DIN-ISO

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Options:

- Steam/cooling jacket with insulation
- Valve battery for cooling and heating
- Direct steam valves with 5my ultra filter +valves
- Powder funnels (100l, 250l, 500l, 1000l & 2000l)
- Powder funnel (25l) for small ingredients incl. manual butterfly valve
- Extra powder valve 2½" butterfly / extra liquid top inlet/ sample valve
- MCC panel with inverters
- I/O Panel for connection to master PLC
- Outlet pump (Alfa laval SRU Positiv pump)
- Load cells (2 pc global weighing) with transmitter in stainless box
- Process valve - different type (GEA, SPX, etc.)

Technical data:

Model:	Mixer volume	Steam Jacket	Direct steam	Cooling Water	Mixer effect	Vacuum pump	Agitator
DTM 250H VA	160	300 kg/h	300 kg/h (1)	10 m3/h	18.5 kW	3 kW	1.5 kW
DTM 500H VA	160	400 kg/h	300 kg/h (1)	10 m3/h	22.5 kW	3 kW	1.5 kW
DTM 1000H VA	200	500 kg/h	600 kg/h (2)	15 m3/h	30 kW	5,5 kW	3 kW
DTM 2000H VA	250	600 kg/h	600 kg/h (2)	15 m3/h	55 kW	5,5 kW	3 kW
DTM 3000H VA	325	800 kg/h	900 kg/h (3)	20 m3/h	75 kW	7,5 kW	5.5 kW
DTM 5000H VA	325	1000 kg/h	1200 kg/h (4)	20 m3/h	90 kW	7,5 kW	7.5 kW

Model:	Outlet/U	Powder valve	CIP	Inlet	Service Water	Dimension (H x W x D)	Shipping weight	Shipping volume
DTM 250VA	Ø51/650mm	1xØ51 1xØ63,5	Ø51	1xØ51	100 l/H	2400 x 1300 x 1000 mm	600 kg	3.1 m ³
DTM 500VA	Ø51/650mm	1xØ51 1xØ63.5	Ø51	1xØ51	100 l/H	2600 x 1400 x 1100 mm	900 kg	4.0 m ³
DTM 1000VA	Ø63,5/650mm	1xØ51 1xØ63.5	Ø51	1xØ51	100 l/H	3600 x 1500 x 1300 mm	1400 kg	7.0 m ³
DTM 2000VA	Ø63,5/1000mm	2xØ63.5	Ø51	2xØ51	100 l/H	4000 x 2100 x 1800 mm	1800 kg	15 m ³
DTM 3000VA	Ø76/1200mm	2xØ63.5	Ø51	2xØ51	150 l/H	4500 x 2600 x 2100 mm	2200 kg	24.5 m ³
DTM 5000VA	Ø76/1200mm	2xØ63.5	Ø51	2xØ51	150 l/H	4800 x 2700 x 2300 mm	2300 kg	30 m ³