

## Batch Paddle Mixer (BPM)



Figure 1 : Batch Paddle Mixer with three stages of paddle impellers and motorized lifting with panel control.

### Main Advantages

- Wide capacity ranging from 50 Litres up to 5000 Litres
- Slow reaction mixing without motor overheating
- Low shearing force with paddle impeller
- Suitable for medium to high viscosity product mixing
- Customizable paddle impeller design with Teflon coating
- Adjustable paddle impellers allows for flexible mixing level
- Flexibility of using a single mixer for multiple batches/ vessels

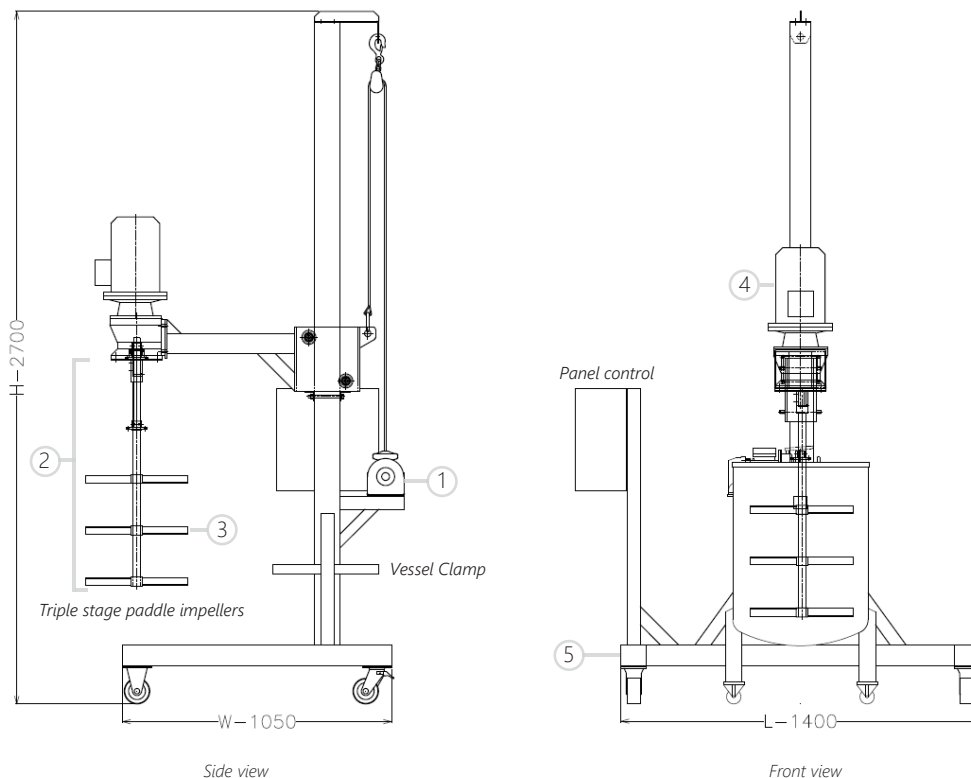
Multimix Batch Paddle Mixer (BPM) Series is specially designed for medium to high viscosity mixing application at low speed for long mixing duration without motor overheating. It is also widely used when shearing is not required for products which are sensitive to heating and might lead to a change to its chemical characteristics.

The impellers can be designed for multiple stages and adjustable for different levels of mixing. For corrosive applications, special Teflon coating can be applied for longevity of the mixer.



Figure 2 : Teflon coated paddle impellers for corrosive application.

## BATCH PADDLE MIXER



### 1. Ergonomically designed

The motorized lifting system enables the mixing head to be effortlessly raised and lowered for different mixing levels.

### 2. Safe, durable and long-lasting

All wetted parts are in grade 316 stainless steel (GMP compliant).

### 3. Production and user friendly

Its impellers are adjustable for different mixing levels for various mixing capacities which help to minimize investment cost.

### 4. Ideal for high viscosity mixing application

The motor used is a helical bevel gear type which allows agitating at low speed for long mixing duration without motor overheating. Coupled with paddle impeller design and high torque speed from the gear motor, this mixer is particularly suitable for high viscosity product / low shearing product applications.

### 5. Higher mobility

The machine base is fitted with four caster wheels so that the unit can be effortlessly transported around the factory. Once in place, the wheels can be locked as security measure. A vessel clamp can also be provided to secure the vessel/drum in place during mixing.

### BPM

Power supply	Three phase, 380V/415V, 50/60Hz
Nominal speed	0-200rpm
Impeller design	Paddle stage (single/double/triple)
Motor	Helical bevel gear
Coating (optional)	Teflon
Wetted parts material	Food and medical grade stainless steel 316L
Machine base	Mobile with caster wheels and safety locking mechanism

Model	BPM 103	BPM 105	BPM 110	BPM 125	BPM 130	BPM 150
Mixing capacity (H2O)	100 Litre	200 Litre	1000 Litre	2000 Litre	3000 Litre	5000 Litre
Motor in HP (equivalent kW)	3HP (2.2kW)	5HP (3.7kW)	10HP (7.5kW)	25HP (18.5kW)	30HP (22.5kW)	50HP (37.5kW)
Speed range (variable speed electronically controlled)	50rpm	50rpm	100rpm	100rpm	200rpm	200rpm
Shaft length	750 mm	850 mm	1100 mm	1300 mm	1400 mm	1600 mm

### Add-Ons (optional)

- A. Panel control with frequency inverter
- B. Powered lifting with electrical motor
- C. Stainless steel mobile jacketed vessel
- D. Multiple stages impellers
- E. Customizable paddle and shaft length as per existing tank depth
- F. Explosion proof motor (EEX D II T4) and remote control station
- G. Safety features e.g limit switch
- H. Vessel clamp