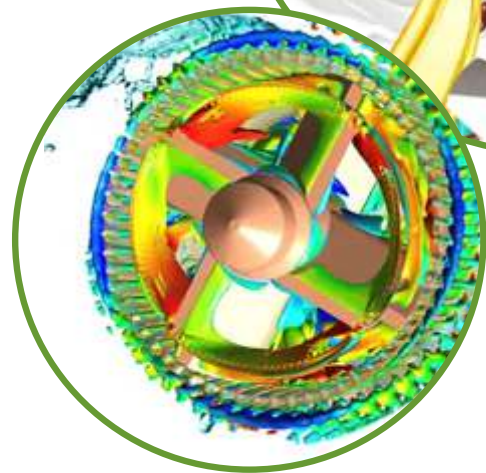
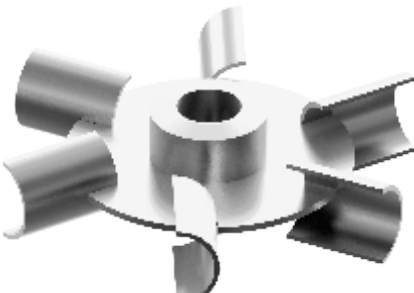


# TUFFMIX<sup>®</sup>

## Mixer Series



**Versatile Mixers For Efficient Rapid Mixing**

## TMX Batch Mixers

Our range of **TMX** series batch mixers are designed to mix ingredients in a batch or vessels.

The **TMX** series of batch mixers emulsify, homogenize, solubilize, suspend, disperse & disintegrates solids.

The rotor/stator work heads are designed with precision engineered to reduce the process time by up to 90% as compared to conventional mixers and simultaneously improving the quality and consistency of the product.

**TMX** series of batch mixers offer a variety of interchangeable work heads & can be modified to meet the process requirements.



S. NO.	MIXER MODEL	RPM @ 50HZ	TIP SPEED @ 50HZ (M/SEC)	MOTOR POWER MAX. IN KW/HP	BATCH SIZE MAX. LTRS @ 1CP
1	TMX80	3000	13	1.5KW/2HP	50
2	TMX100	3000	16	2.2KW/3HP	100
3	TMX120	3000	19	3.7KW/5HP	300
4	TMX140	3000	22	7.5KW/10HP	800
5	TMX160	3000	25	11KW/15HP	1500
6	TMX180	3000	28	18.5KW/25HP	2000
7	TMX200	1500	16	22KW/30HP	4000
8	TMX220	1500	17	30KW/40HP	5000
9	TMX240	1500	19	37KW/50HP	6500
10	TMX270	1500	21	55KW/75HP	10000
11	TMX290	1500	23	75KW/100HP	12000
12	TMX300	1500	24	90KW/120HP	15000

## BMX Bottom High Shear Mixers

**BMX** series of hygienic high shear bottom entry mixers are designed to be fitted into the bottom center or off center the mixing vessel.

**BMX** series of hygienic high shear bottom entry mixers are cGMP & USFDA compliant & are used for dispersion, emulsifying and disintegration of solids.

They are widely used in food processing, personal care, cosmetics & pharmaceutical industries.

For high viscosity products they are used in conjunction with scrappers, stirrers or agitators. For low viscosity products they can be used by themselves.

The multistage mixing & shearing action of **BMX** series of hygienic high shear bottom entry mixers reduces the process time by upto 90% while increasing quality & consistency of the product



S. NO.	MIXER MODEL	RPM @ 50HZ	TIP SPEED @ 50HZ (M/SEC)	MOTOR POWER MAX. IN KW/HP	BATCH SIZE MAX. LTRS @ 1CP
1	BMX80	3000	13	1.5KW/2HP	50
2	BMX100	3000	16	2.2KW/3HP	100
3	BMX120	3000	19	3.7KW/5HP	300
4	BMX140	3000	22	7.5KW/10HP	1000
5	BMX160	3000	25	11KW/15HP	1500
6	BMX180	3000	28	18.5KW/25HP	2000
7	BMX200	3000	31	22KW/30HP	4000
8	BMX220	3000	35	30KW/40HP	5000
9	BMX240	1500	19	37KW/50HP	6500
10	BMX270	1500	21	55KW/75HP	10000
11	BMX290	1500	23	75KW/100HP	12000



## HMX Inline High Shear Mixers

For mixing, blending, emulsifying, dispersion, dissolution homogenizing, suspending & for disintegrating solids, our range of **HMX** series, high shear inline mixers are extremely efficient. They are capable of reducing mixing times by up to 90% as compared conventional mixers.

As per the requirement of the process our inline mixers can be modified by use of interchangeable work heads.

The **HMX** series inline mixers are installed outside the tank & hence can be integrated into an existing production line.

The Inline mixers are used in single pass or with several circulations to meet the desired results



S. NO.	MIXER MODEL	RPM @ 50HZ	MOTOR POWER MAX. IN KW/HP	MAX. FLOW LPH @ 1CP
1	HMX80	3000	1.5KW/2HP	5500
2	HMX100	3000	2.2KW/3HP	11000
3	HMX120	3000	3.7KW/5HP	15000
4	HMX140	3000	7.5KW/10HP	18000
5	HMX160	3000	11KW/15HP	26000
6	HMX180	3000	18.5KW/25HP	40000
7	HMX200	3000	22KW/30HP	60000
8	HMX220	3000	37KW/50HP	86000

\* Above data is applicable for impeller type rotor & different mesh type stator



## BPMX Bottom Mounted Agitators

**BPMX** series of hygienic agitators are bottom entry or side entry agitators

**BPMX** series of hygienic agitators are used for mixing dissolution, dilution, dispersion & agitation.

**BPMX** series of hygienic agitator are cGMP & USFDA compliant these hygienic agitators are used mainly for low to medium viscosity products. Bottom entry agitators are available with double & single seals as per options & are suitable for Vacuum to 6 bar press.

**BPMX** hygienic agitators are high performance, efficient propeller type agitators used widely in food processing cosmetic, personal care, pharmaceutical chemical & dairy industries.

Various propellers available are: marine, hydrofoil, cowl impeller, turbine, radial & axial impellers.



S. NO.	MIXER MODEL	RPM @ 50HZ	MOTOR POWER MAX. IN KW/HP
1	BPMX100	1440	0.37KW/0.5HP
2	BPMX120	1440	1.5KW/2HP
3	BPMX140	1440	2.2KW/3HP
4	BPMX160	1440	3.7KW/5HP
5	BPMX180	1440	5.5KW/7.5HP
6	BPMX200	1440	7.5KW/10HP
7	BPMX250	1440	11KW/15HP
8	BPMX300	1440	15KW/20HP

## TPMX Top Mounted Agitators

**TPMX** series of hygienic agitators are top entry vertical agitators.

**TPMX** series of hygienic agitators are used for mixing dissolution, dilution, dispersion & agitation.

**TPMX** series of hygienic agitator are cGMP & USFDA compliant these hygienic agitators are used mainly for low to medium viscosity products. Top entry agitators come in direct drive motors & geared motor options with double seal & single dry running seals.

**TPMX** hygienic agitators are high performance, efficient propeller type agitators used widely in food processing cosmetic, personal care, pharmaceutical chemical & dairy industries.

Various propellers available are: marine, hydrofoil, cowl impeller, turbine, radial & axial impellers

S. NO.	MIXER MODEL	RPM @ 50HZ	MOTOR POWER MAX. IN KW/HP
1	TPMX75	1440	0.37KW/0.5HP
2	TPMX100	1440	0.5KW/0.75HP
3	TPMX120	1440	1.5KW/2HP
4	TPMX140	1440	2.2KW/3HP
5	TPMX160	1440	3.7KW/5HP
6	TPMX180	1440	5.5KW/7.5HP
7	TPMX200	1440	7.5KW/10HP
8	TPMX250	1440	11KW/15HP
9	TPMX300	1440	15KW/20HP



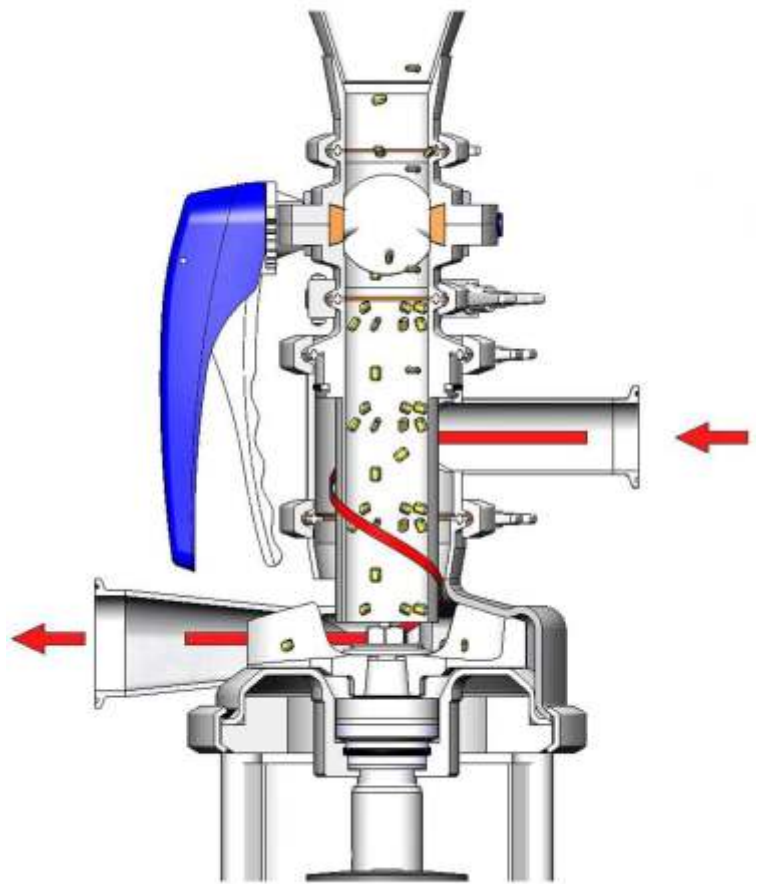
## TBL Turbo Blenders

TBL series hygienic blenders are used for powder liquid mixing.

The solids may be crystal, granules or powder.

A wide range of interchangeable work heads and inducers are available for TBL series hygienic blenders. They can be adapted as per the process requirements to emulsify, blend, homogenize, disintegrate, dissolve, disperse, for particle size reduction or deagglomeration.

The TBL series hygienic blenders are cGMP & USFDA compliant & are used in food processing, beverages, pharmaceutical, cosmetic personal care & chemical industries.



S. NO.	MIXER MODEL	RPM @ 50HZ	MOTOR POWER OPTIONS. IN KW/HP	MAX. FLOW LPH @ 1CP
1	TBL-160	3000	5.5-7.5-11KW/7.5-10-15HP	26000
2	TBL-200	2200	15-22.5KW/20-30HP	50000



## Food Application:

- Soft Drinks
- Beer
- Juices
- Ice Cream Premix
- Candy Premix & Caramel
- Baby Milk Manufacturing
- Sweetened Condensed Milk
- Premixes for Yogurt & Other Cultured Milk
- Processed Cheese
- Flavoured Milk Drinks
- Production of Margarine & Low Fat Spreads
- Refining of Edible Oils
- Production of Flavor Emulsions
- Cannabidiol Oil (CBD) in food products
- Dispersion of Pectin for Jellies & Preserves
- Deagglomerating Batter Mixes
- Preparation of Batter and Coating Mixes
- Preparation of Brines for the Meat Industry
- Preparation of Pet Food Gravies And Gels
- Manufacturing of Tomato Sauces & Ketchups
- Mayonnaise Manufacturing
- Preparation of Mustards
- Hydration of Xanthan Gum
- Preparation of Guar Gum Solutions

## Pharma Applications:

- Array of Pharmaceutical Products
- Production of Pharmaceutical Creams & Ointments
- Manufacturing of Ophthalmic & Contact Lens Solutions
- Production of Cough Syrups & Pharmaceuticals Syrups
- Mixing of Sterile Ingredients
- Manufacturing of Pharmaceuticals & Tablet Coatings
- Manufacturing of Water-In-Oil (W/O) Emulsified Vaccines

## Cosmetic Applications:

- Lipstick Manufacturing
- Production of Creams, Lotions & Moisturizer
- Manufacturing of Deodorants & Antiperspirants
- CBD Oil in Cosmetic Products
- SLES Dilution
- ALS Dilution
- Hair Oil
- Manufacturing of Shampoos
- Manufacturing of Toothpaste

## Home Care Applications:

- Dish Washing Liquid
- Floor Cleaners
- Liquid Detergents

## Elevator for Top Entry Mixer

