

AMF

TILT BOWL MIXER (TBM)



- **Heavy Duty Horizontal Tilt Bowl Dough Mixer**
- **Designed for Mixing Breads, Rolls, Buns, Flour Tortillas, Croissants, Bagels, Pizza, Specialty Doughs and English Muffins**

FEATURES AND BENEFITS

- **Most robust frame and bowl design in the industry**
- **Easy access design and 6" (152 mm) floor clearance facilitate cleaning and maintenance**
- **New bowl design for maximum glycol cooling efficiency and optimal dough temperature control**
- **Heavy duty stainless steel triple roller agitator and shafts**
- **Long lasting sanitary style shaft seals are designed for easy removal when replacement is needed**
- **Single end belt drive system for minimal maintenance**

MECHANICAL SPECIFICATIONS

Frame Assembly

- The exterior of the mixer is entirely covered with polished stainless steel and mounted on a rigid steel frame treated with a stainless steel epoxy paint
- Rigid stainless steel bumper guards
- Lift lugs
- Anti-vibration pads

Bowl and Cooling Jacket

- The bowl is tilted to 120 degrees towards the front
- Stainless steel bowl and jacket totally redesigned for high efficiency (Glycol cooling)
- Bowl insulated with urethane foam covered with a welded stainless steel sheet
- Bowl rests on Nylatron bushings
- Bowl tested at 150 PSI
- Glycol manual hand valves are included
- Refrigeration hoses are included

Agitator and Drive Assembly

- Solid stainless steel Y type spiders split at main shaft and agitator bars
- Stainless steel primary and secondary agitator bars mounted on lubrication free UHMW bushings
- Main shaft seals are easily removable and fabricated of polyethylene for exceptional durability. This new type of seal allows easy cleaning.
- Solid stainless steel breaker bar (adjustable four positions)
- Heavy duty stainless steel main shaft
- Single end belt drive with integral gearhead motor mounted on adjustable base eliminates binder
- Main motor can be replaced from the back or the drive side (depending on option)
- Standard agitator RPM: 35/70 (other RPM's are available as options)
- Manual central lubrication system

Top Assembly

- 12" (305 mm) O.D. butterfly or sliding flour gate
- Two stainless steel liquid inlets
- Canopy scraper
- Flour vent

Tilting Assemblies

- Hydraulic tilt on all models include:
 - Hydraulic unit with manual back-up pump
 - Hydraulic cylinder



Mechanical Overtilt Options



Agitator Drive Side



Mixer Top Canopy With Multiple Flour Inlets and Sponge Door



Sanitary Main Shaft Seal



Hydraulic Tilt Mechanism Side



ELECTRICAL SPECIFICATIONS

Operator panel is NEMA 4X rated and contains the following:

- Allen Bradley PanelView Plus touchscreen/keypad operator interface which displays:
 - Mixing and refrigeration time
 - Dough temperature
 - Status and alarm messages
 - Product codes and recipes
 - Total operation time clock
- Allen Bradley push-buttons for the following functions:
 - Mixing (slow, fast, stop)
 - Tilting (lower, raise)
 - Alarm (acknowledge/reset)
 - Safety
 - Emergency stop

NEMA 12 remote enclosure (painted steel) including:

- Fused disconnect switch
- AC inverter
- Allen Bradley Programmable logic controller
- Motor overheat protection installed in the stator winding
- Wash down duty Weg drive motor (aluminum or copper rotor) integral mount with NORD gear reducer
- High/low speed jog operation with special anti-jog function
- Mixer and refrigeration mode selection from operator interface
- Timer and setpoint based temperature control modes included
- Safety: Latching safety devices on ingredient and access doors interlocked with agitator motion monitor.
- Standard voltage 460 and 600 volts / 3 Phase / 60 Hz (other voltages available)
- PLC I/O voltage 24VDC in/24 VAC out

MECHANICAL OPTIONS

- Bowl drain valve
- Lip extension
- Bowl end cooling
- PolarBar refrigerated breaker bar (includes bowl end cooling option)
- Double extra heavy duty stainless steel primary agitator bars (included in models 2000 lb. and above)
- Y-T asymmetrical full split stainless steel agitator
- Extra liquid inlet
- Additional flour inlet (available only with butterfly valve)
- Rear sponge door, air operated hinge type
- Rear ingredient door with safety bars and agitator motion interlock
- Solid, full length legs with high performance stainless steel pigmented gray epoxy paint up to 24" (610 mm)
- Mechanical overtilt to 140 degrees on 1600 lb. to 3200 lb. models include:
 - Integral gearhead brake motor with chain and sprockets
 - Caliper and disk bowl lock mechanism
 - Air driven hydraulic pump for calipers
- Mechanical reverse tilt 25 degrees with seal cleaning system
- Automatic central lubrication system
- Trough hold down mechanism, manual or air operated



Arctic Cooling Package



Optional Y-T Agitator

ELECTRICAL OPTIONS

- Dual speed drive motor/starter in lieu of inverter package
- Ampmeter or wattmeter to display motor load
- Dough Guardian quality monitor to trend agitator motor energy and reference to pre-recorded curves
- Remote pedestal mount stainless steel operator console
- Stainless steel main electrical enclosure
- Full auto mode (automatic discharge sequence programming with status messages and interfacing)
- Processor and operator interface upgrades
- ARC flash relocation panel



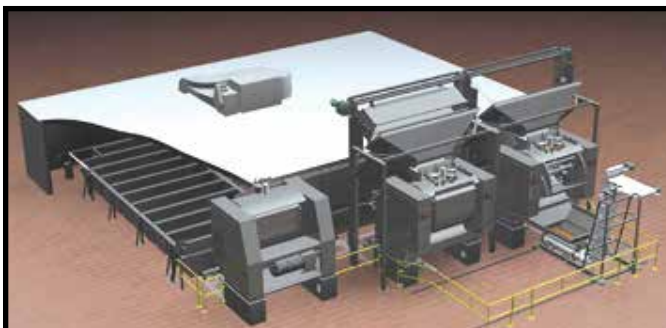
Optional Remote Pedestal Operator Console with Dough Quality Monitoring System

SPECIFICATIONS

Model Name		TBM 800	TBM 1000	TBM 1300	TBM 1600	TBM 2000	TBM 2400	TBM 2800	TBM 3200
Mixing Capacity ^{1,2}	lb. kg	800 363	1000 454	1300 590	1600 726	2000 907	2400 1089	2800 1270	3200 1452
Bowl Volume	ft ³ liters	30 850	37.5 1062	45.3 1283	61.8 1750	77.2 2186	81.8 2316	91.4 2588	98.2 2781
Base Motor	HP	20/40	25/50	30/60	37.5/75	50/100	62.5/125	75/150	87.5/175
Main Power Requirement	KVA	45	55	65	80	105	130	155	180
Approximate Floor Load	lb./ft ² kg/m ²	1790 8739	1900 9275	2090 10203	1200 5859	1350 6591	1400 6835	1450 7080	1525 7446
Approximate Shipping Weight	lb. kg	17500 7938	18500 8391	20000 9072	21000 9525	24000 10886	24500 11113	25000 11340	26000 11793

1: Estimated for dough densities of 60 lb./ft³

2: Minimum mixing capacity should not be lower than 50% of Mixing capacity



AMF is Your Industry Leading Source for Complete Integrated Dough Systems from Design to Professional Project Management and Implementation

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