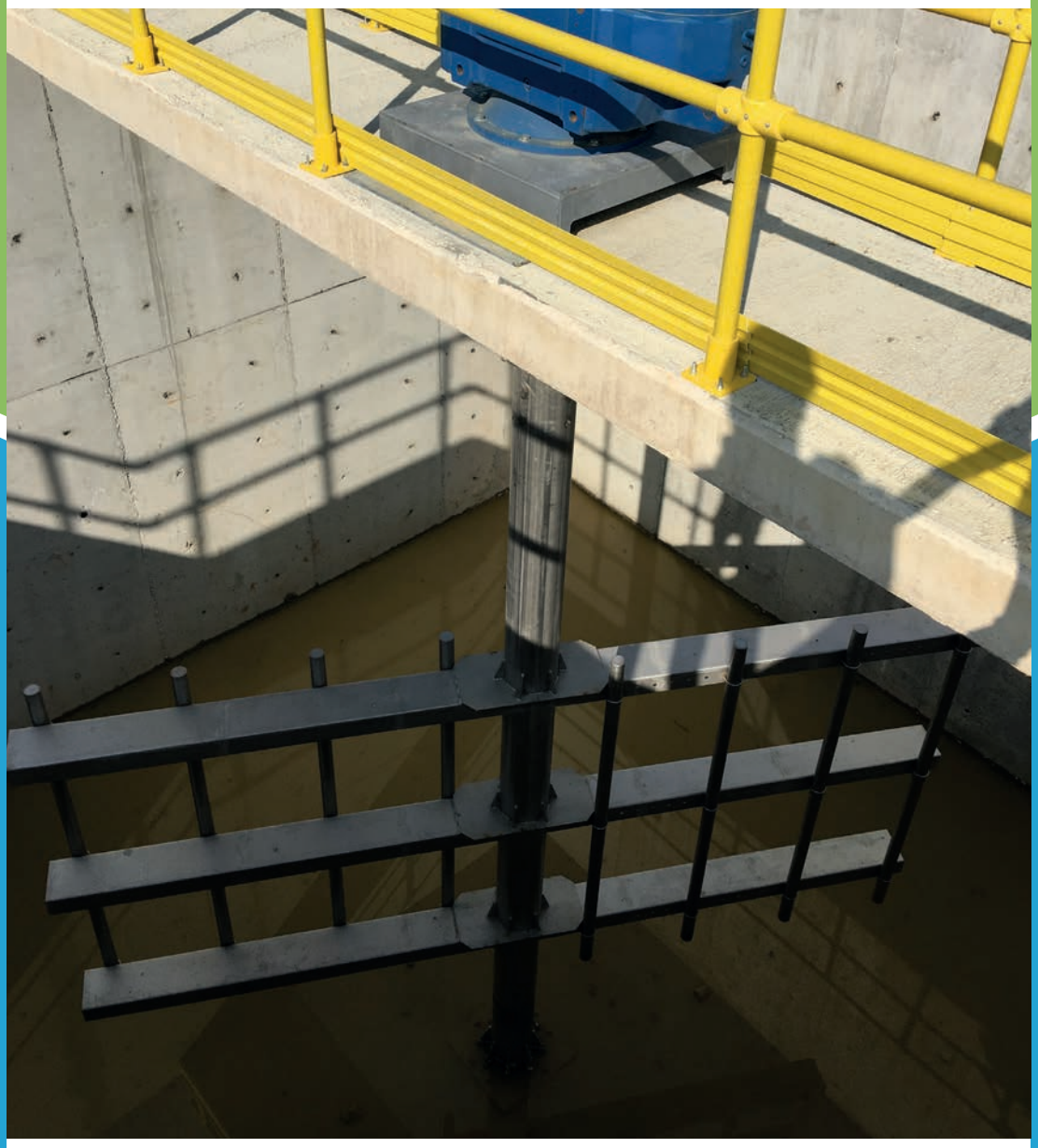
BAHAR
mühendislik

VERTICAL SHAFT PALLET TYPE SLOW MIXERS



www.baharmuhendislik.com

VERTICAL SHAFT PALLET TYPE SLOW MIXERS

General Description and Intended Use

Slow mixers are used in the slow mixing containers for particles that become flocks in the rapid mixing container to flocculate with the addition of polyelectrolytes. With this process, particles are enabled to merge or to enlarge.

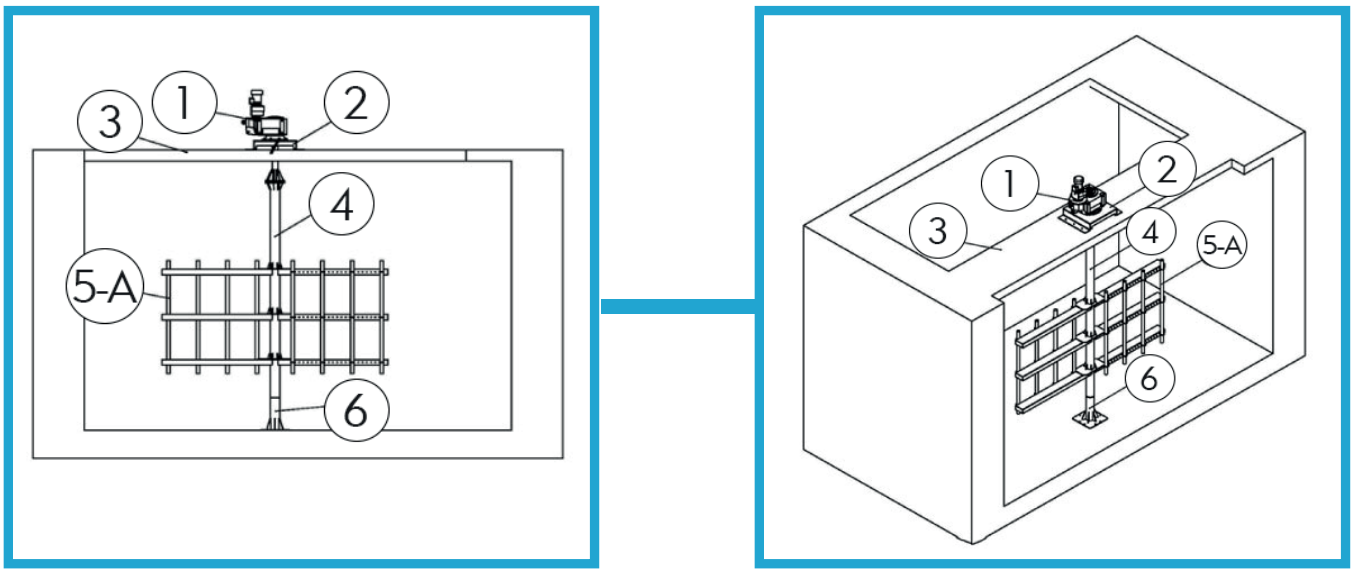
Slow mixers are manufactured as pallet type mixers. Pallet type mixers function as flocculators.

Working Principle Of Equipment

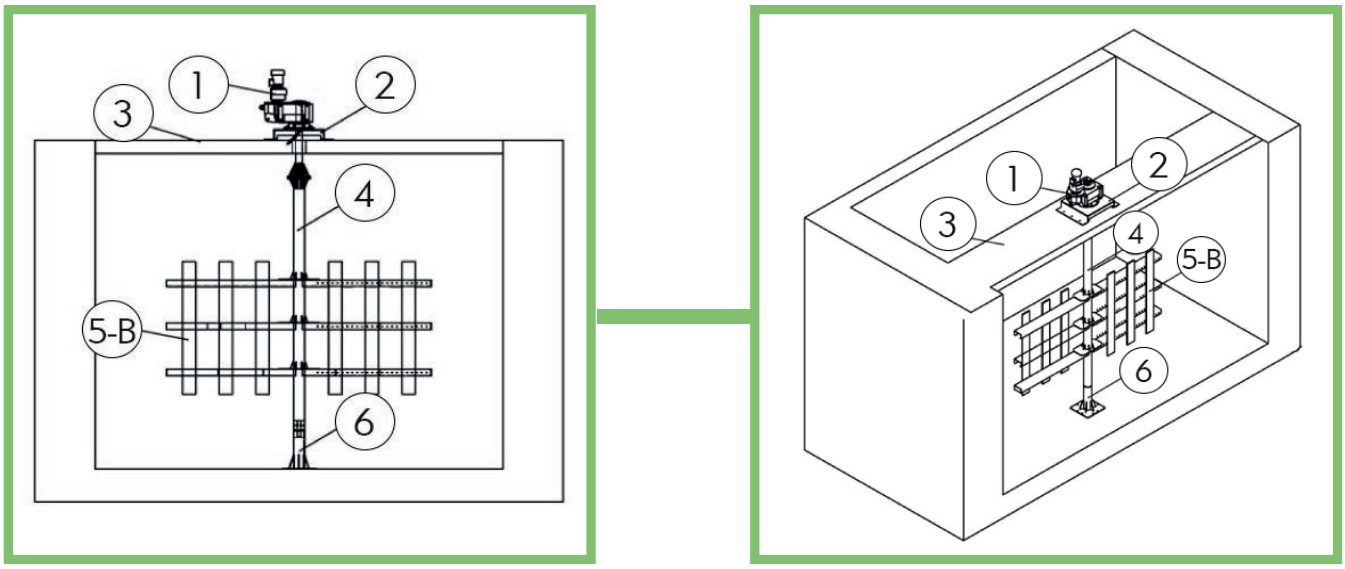
It is designed to provide exact mixtures, for flocks formed in rapid mixing to enlarge and not to be destroyed based on pool geometry, liquid viscosity, chemical solubility in water and wastewater treatment facilities.

Slow mixers are manufactured as with reducer/motor, with coupling or without coupling, with bearing or without bearing. There are speed options for desired speed.

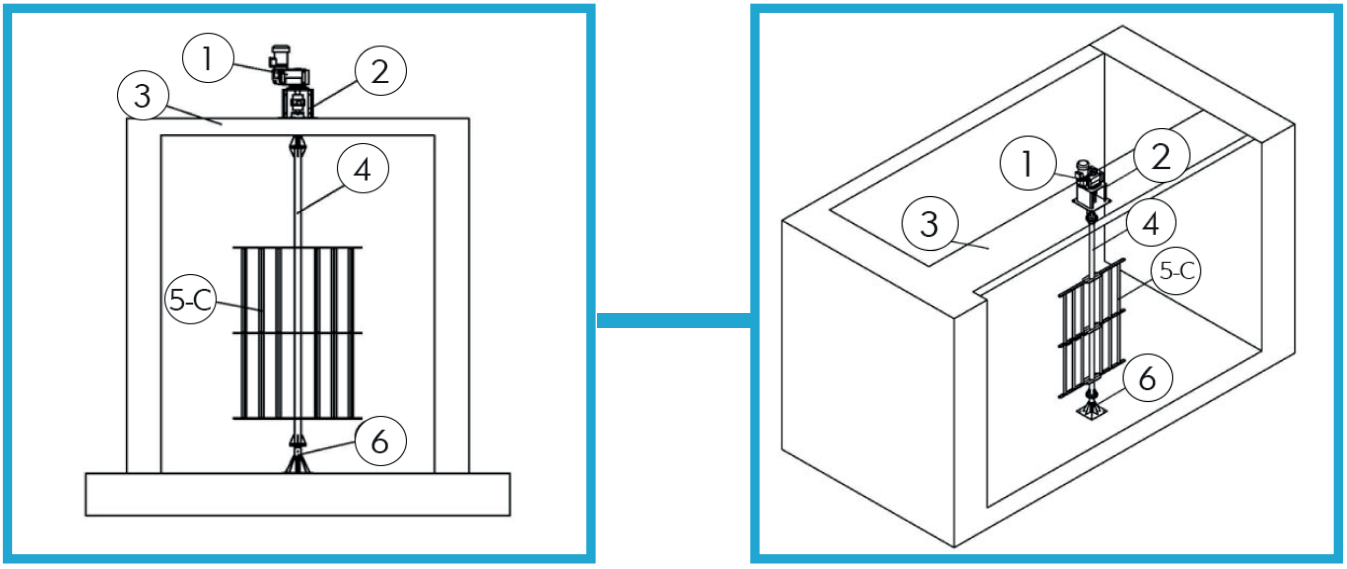
Tubular type, bracket type and palette type mixers are used. Flow direction in mixers are determined by the sense of rotation of pallets. Mixers are designed for the mixing process to use minimum efficient energy and without causing swirls in the water so that flocks are not destroyed. Force of friction and shear form during the movement. For this reason, first, vertical flow line forms in the container and axial flow line length stays short with the crash of vertical flow lines into to sidewalls of the pool/tank.



TUBULAR TYPE



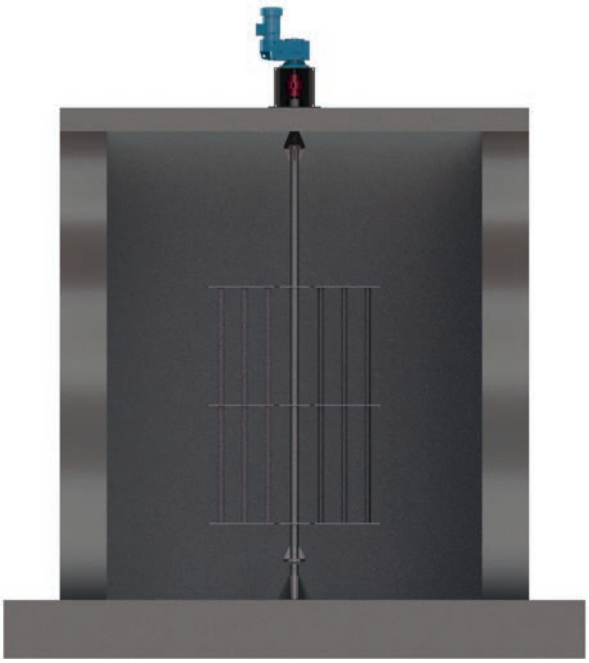
PALETTE TYPE



BRACKET TYPE

TECHNICAL SPECIFICATIONS

- Tubular type, bracket type and palette type slow mixers are used in slow mixing tanks.
- Type of the mixer is chosen according to height, width, length of the pool and viscosity properties of the solid-liquid, liquid-liquid materials to be mixed
- Diameter of the mixer, flap measures, motor/reducer speed etc technical data are calculated and the mixer that can make the most suitable mixture is chosen.
- Mixer material is chosen in accordance with the ph properties of solid-liquid, liquid-liquid matters to be mixed.
- It is designed and manufactured to use minimum energy and make the most efficient mixture.



No	Part Name
1	Motor/ Reducer
2	Motor/ Reducer Bench
3	Mounting Bridge
4	Shaft
5-A	Tubular Type Mixer
5-B	Palette Type Mixer
5-C	Bracket Type Mixer
6	Thrust Block

ADVANTAGES

- High Performance Mixture
- Possibility to Tracking and Check the System Operation over SCADA,
- Low Operation and Maintenance Costs,
- Resistant Heavy-Duty Design,
- Easy Transportation and Mounting,
- Long Operation Life,
- Low First Investment Cost,
- Easy Maintenance Possibility,
- Suitable for Outdoor Operation

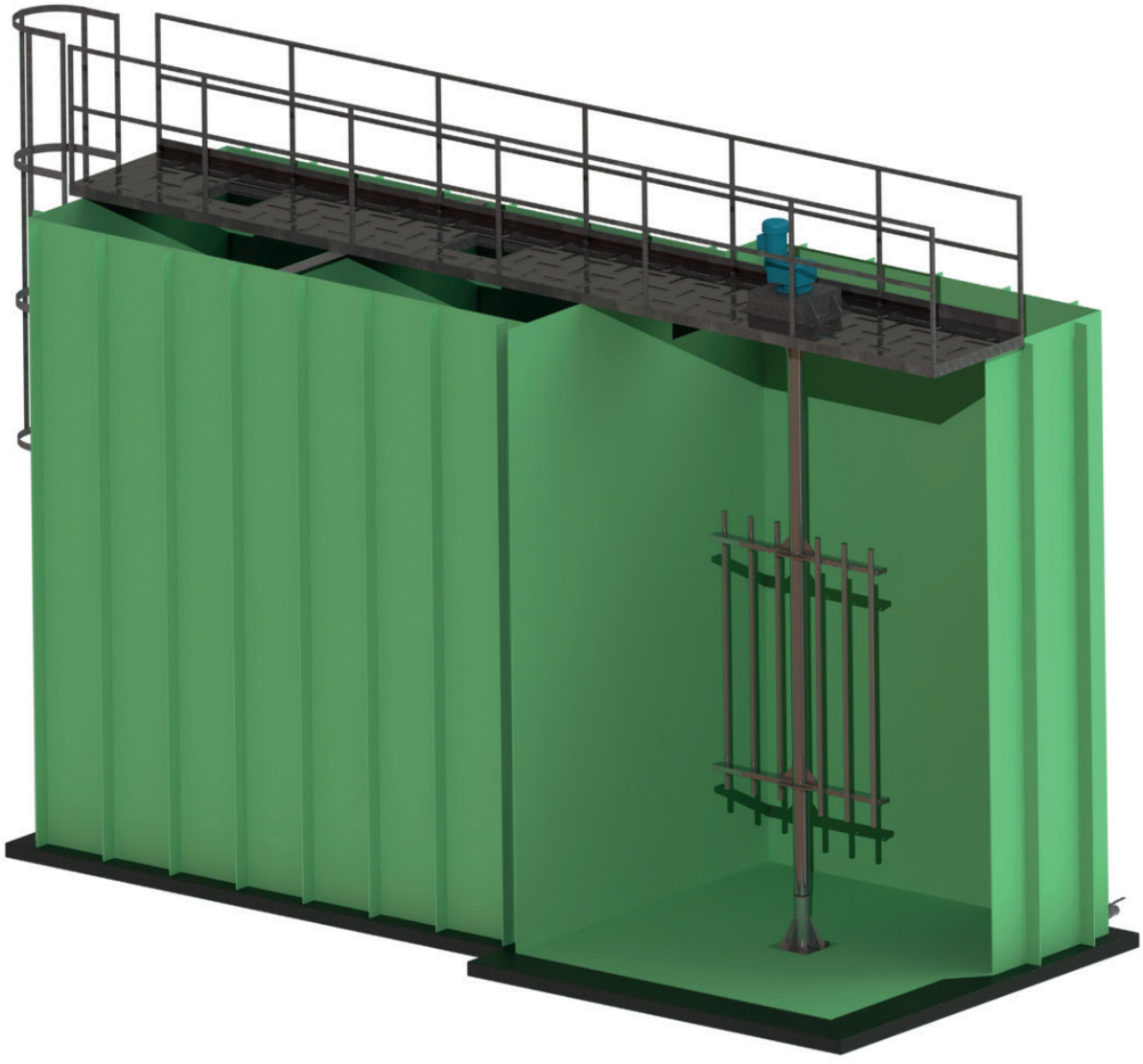
Material Details

- Shaft: They can be manufactured as DIN 1.4301 (AISI 304) or DIN 1.4401 (AISI 316).
- Mixing Pallets They can be manufactured as DIN 1.4301 (AISI 304), DIN 1.4401 (AISI 316) or Impregnated Boarded
- Bearing: They can be manufactured as DIN 1.4301 (AISI 304) or DIN 1.4401 (AISI 316).
- Bench: They can be manufactured as S235JR + Hot Dipping Galvanized Coating, S235JR + Epoxy Paint, DIN 1.4301 (AISI 304) or DIN 1.4401 (AISI 316).

Accessories

- Bearing
- Motor/ Reducer Bench
- Mounting Bridge*
- Coupling*
- Frequency Inverter*
- Emergency Button*
- Local Power and Control Panel*

* Optional accessories are defined.



Marmaracık Mah. 1982. Sok. No: 13/1
Ergene / Tekirdağ / TÜRKİYE
+90 0282 686 63 33 pbx +90 0282 686 63 34
www.baharmuhendislik.com