

Small-sized, High-speed Submersible Mixer

SM

Shinmaywa SM Series is a submersible mixer that resolved complaints against conventional mixers.

Propeller is of non-clog type with a shape avoiding foreign objects attaching and clogging, generating a strong jet flow.

The mixer can adjust installation angle and depth at the point suitable for mixing, producing a large mixing effect in an energy saving.

Small-sized Submersible Mixer

■ Features

- Low-output (0.25 - 0.75kW) compact design allows to install easily even in a narrow place.
- Installing optional flow stabilizer allows operations at water depth 500mm, suitable for mixing flow rate adjusting tanks in a small-scale sewage treatment plant.
- Newly developed propeller generates strong jet flow even with low-output.
- Mounting and removing mixer can be done only moving along the guide bar, auto connection device provide the easy maintenance.
- Non-clog type propeller is used to avoid tangling debris. Troubles due to debris clogging are avoided.
- Mixer installation angle is 120°, allowing operation with free angles. Select the most suitable angle for mixing effect.



SM750

■ Applicable Condition

Liquid Type	Specific Gravity	Viscosity	Temperature	Chlorine Ion	Sludge Concentrat	Water Depth	pH
Various types of sludge	1.1 or less	1,000m Pa·s or less	0°C - 40°C	1,000mg/ℓ or less	5% or less	10m or less	6 - 9

- Applicable liquid specific gravity and viscosity vary per product type.
 - Some liquid type may support a range exceeding the above scope.
 Please contact us.

■ Applications

- Destruction of scum in raw water tank.
- Uniform mixing of flow control tank.
- Sludge sedimentation prevention of reaction tank and aeration tank .
- Uniform concentration in the sludge tank.
- Mixing for other sludge.

■ Standard Specifications

Model	Frequency Hz	Rated output kW (HP)	Phase	Pole P	Mixing Output in Clear Water kW	Rated Electric Current A	Flow Rate m³/min	Reactive Force N	Weight kg
SM250	50	0.25 (1/3)	3-phase	4	0.21	2.3	1.8	53	20
	60				0.22	2.0	1.5	44	
SM400	50	0.4 (1/2)			0.33	2.8	2.7	80	23
	60				0.32	2.5	2.0	60	
SM750	50	0.75 (1)			0.55	4.4	3.5	140	25
	60				0.6	4.2	3.4	125	

For motor characteristics, bearings and oils, see the specification in the colour pages.

■ Accessories

- Cable {10m}1 pc.
- Shackle Stainless steel (SUS304)1 pc.

