

Verdermix VSM Series

Characteristics

This type of agitator uses a special electric motor with a hollow motor shaft.

The robust mixer shaft is fixed with both a conical and a cylindrical fit. Due to the hollow shaft construction the bearings are over dimensioned.

The VSM Series have a robust and stable design and are perfectly constructed for heavy duty applications.



Your benefits

- **Modular system**
- **Very robust and stable design**
- **Simply modified for custom applications**
- **Easy assembly**

Application areas

- Neutralisation in wastewater plants
- Coagulation in wastewater plants
- Homogenisation of low viscous fluids
- Wastewater treatment
- Mixing fluids of higher viscosities
- Heavy duty applications
- Flocculation treatment
- Reactor vessels
- Homogenisation of solids in liquids

The selection of the best dynamic mixer with the correct impeller type will not only depend on the product viscosity, tank design, position of the mixing device, etc. A lot more parameters have to be taken into account.

Contact our team of engineers to help you selecting the right mixer for your application!

Working principle

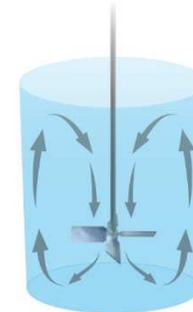
The Verdermix stainless steel axial and radial flow impellers are suitable for various mixing applications in all kind of industries. Both type of impellers are specifically designed in order to generate a typical flow pattern. With an axial flow impeller the liquid will run parallel to the blade while a radial flow impeller will show in general a perpendicular flow pattern.

The dynamic mixers are installed in mixing tanks for mixing f.i. 2 different kind of liquids, solids in liquids, powder in liquids, etc.

Axial flow:

Axial flow impellers will generate a flow pattern parallel to the impeller shaft generating more flow and less shear so important for shear sensitive applications.

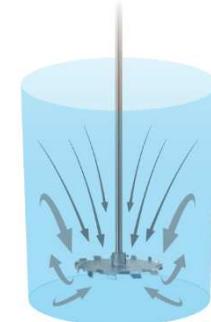
They create top to bottom motion into the tank.



Radial flow:

Radial flow impellers will discharge fluid to the vessel wall in a horizontal or radial direction generating less flow but higher shear.

They move liquids and / or solids to the wall of the mixing tank.



Technical details

Options	Sealing lantern with a mechanical seal, lip seal or stuffing box, chemical resistant coating.
Construction	Fixed or portable stands can be constructed to meet customers specifications and requirements
Shaft speeds	Between 750 and 1800 rpm
Shaft length	Up to 2500 mm
Mixing elements	PS (foldable) - L - PSL - Z - RB