

Plug flow reactor design is used for the continuous reaction inline. Series connection of our different designed static Mixers are creating the perfect mixing as well better temperature control through heat transfer to get the desired product. It's available for lab scale as well for pilot plant. In series includes Temperature sensors, dosing Nozzle, sampling nozzles, actuators and other peripherals specially developed for this purpose, which have no detrimental effects on the residence time range, heat transfer or mixing efficiency. Customized peripheral devices are essential for continuous reaction processes in the laboratory or in a pilot plant, to guarantee perfect control and monitoring of the reaction.

All reactor type static mixers are available with jackets. Inside the jacket there are spiral arrangements around the static mixer which increase the contact time of the heat transfer media. All reactor static mixers are covered with suitable insulation for the better heat transfer and safety. One or more reactants are only partially added at the start of the reaction section and are instead divided up and supplied at several different points during the process.

The achievement of full modularity results in a shorter and more straightforward design phase. Our specifically designed for continuous reaction processes combining a very high conversion rate with reliable control of exothermic reactions. In the most of the cases 80% of mixing will be done in few seconds. But for the better mixing (99%) and control over the Temperature there are few more static mixers installed in the series connection which also allowed the one more reactants added during the inline reaction.



