

# Pilot Mixing Plant for the mixing of low viscosity, high viscosity and particulate products

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# Pilot Mixing Plant

With this mixing plant from GEA TDS new innovative products can be produced using methods and processes not previously available. Various kinds of low viscosity, high viscosity and particulate products can be mixed with each other without difficulty producing a suspension or dispersion as the result. The whole process takes place either at atmospheric pressure, below atmospheric pressure or above atmospheric pressure, up to 1 bar, as required, and all at pilot plant standard. The mixer consists of a 100 litre product tank with double walls that can be either heated (max. 100 °C) or cooled (min. 1 °C) as required. The vessel is equipped with a centrally installed anchor agitator with stripper for left-hand and right-hand motion. In addition there is a lateral placed turbo agitator with a tooth wheel and dissolver. The agitators can be frequency controlled for optimal matching to the mixing process. From evaluation of the tests conducted there

follows the definition of the process parameters required for product production. To operate the pilot mixing plant, it is equipped with a small control cabinet.

## Technical data:

### Tank

- 100 ltr, max. 100 °C

### Anchor agitator

- 0,75 kW, frequency controlled

### Agitator

- 3 kW, frequency controlled

### Tank heater

- hot water by a circuit with plate heat exchanger

### Media

- steam: max. 10 bar
- cooling water: max. 10 bar
- ice water: max. 10 bar

## Connections

- product outlet (inlet and outlet): DN 40 acc. to DIN 11851-S
- steam, cooling water, ice water: DN 25 acc. to DIN 2633, PN 16
- tank above: 3 x DN 100 acc. to DIN 11851-S, sight glass
- water inlet: DN 25 acc. to DIN 2633, PN 16
- pressure air: connection DN 10
- power: connection 16A



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