

**HDS**



## Yeast Pitching System



## Technical Data

<b>Capacity</b>	10-3000 hl/h
<b>Diameter</b>	DN25 – DN150
<b>Temperature</b>	2°C – 95°C
<b>Measuring and Range of Control</b>	0 – 100 Mio / cm <sup>3</sup>
<b>Cleaning</b>	CIP up to 95°C
<b>Material</b>	1.4301 / 1.4404 / AISI
<b>Gasket</b>	EPDM
<b>Optional</b>	Oxygen Measurement Booster Pump Remote Access Kit

The HDS yeast pitching system homogeneously distributes yeast into wort according to a specified concentration.

For complete wort preparation, the unit can be supplied as a skid mounted system together with wort aeration equipment

The wort passes through an inductive flow transmitter and the first turbidity sensor. The wort quantity as well as the basic turbidity are determined. In the mixing nozzle, wort and yeast are blended together and gently homogenized in the following pump or in a static mixer. The second turbidity sensor determines the general turbidity resulting after the addition of the yeast; this value is compared with the basic turbidity. The amount of the yeast is controlled by a frequency controlled pump. The control can be achieved based on the flow rates and/or the differences in turbidity. By using the method of regulation based on the difference of turbidity, a correlation curve is stored in the PLC, enabling the determination of the yeast concentration for any difference of turbidity. By using the difference of turbidity, the concentration of yeast in the wort is indirectly set. If the flow of the wort or of yeast stops, the integrated inductive flow transmitter senses the change and the unit stops automatically. The resultant yeast pitching is controlled by either the difference in the turbidity or in the volume flow. The proportioning system is therefore highly secure. The two methods operate independently from each other and in case one system fails, the unit can continue the production controlled using the second control method. The system can be combined with a wort aeration system and/or integrated into any existing process control system.

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