



## Model STS 45

STS 45 is a belt driven high speed 2 phase clarifier built by STS according to our own designs and specifications. All STS machines are backed by our exceptional performance warranty and are supported by local spare parts inventory and factory trained technicians.

## Proven Performance

### Technical Features

- Valve-type ejection system
- Liquid hermetic seal
- Gentle / Low shear feed design
- Adjustable ejection volume
- Enclosed solids discharge
- Short spindle + Cushioned drive
- Belt drive

### Typical Applications

- Brewing
- Fruit & Vegetable Juices
- Wine
- Citrus
- Dairy

### Benefits

- Precise automatic solids discharge
- Low oxygen pick-up
- Higher clarification efficiency
- Optimized ejection performance for each application
- Lower noise level
- Minimizes vibrational severity
- Low maintenance cost
- Discharge product streams under pressure
- Starch
- Coffee & Tea
- Wastewater & Environmental

## Flow Rates for typical applications\*:

White Wine ex 1 <sup>st</sup> ferment	8 - 12 m <sup>3</sup> /hr
Red Wine ex 1 <sup>st</sup> ferment	6 - 10 m <sup>3</sup> /hr
Green Beer Clarification	6 - 15 m <sup>3</sup> /hr
Hot Wort Separation	6 - 15 m <sup>3</sup> /hr
Lees/Tank Bottoms Recovery	1-1.5 m <sup>3</sup> /hr

\*Actual capacities are subject to the specific characteristics of the product & installation.

## Specifications

### Monitoring + Control:

- Process dependent ejection control determines time for optimal solids ejection
- Product flow rate auto-control
- Oil flow monitoring + control
- Vibration monitoring + control
- Bowl speed monitoring + control
- Air + Water pressure monitoring + control
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### Alternative Designs Available:

- Skid mountable upon request
- Hermetic design with mechanical seal
- 3-phase separator design
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### General Specifications:

- Bowl material in EN 1.4418
- Other Product contact surfaces in 316 SS or higher
- Painted cast frame as standard (Stainless steel-clad frame optional).
- Bowl speed 7,200 rpm
- 18.5 kW main motor
- VFD
- Allen Bradley CPU\*
- Allen Bradley PanelView Plus Color screen\*
- HMI fully customized to customer requirements included.\*\*

\* Alternatives upon request. \*\* Based on agreed specifications

Width (mm)	Length (mm)	Height (mm)	Weight (kg)
2500	1500	1500	

Dimensions not including control panel.

### Disclaimers:

This information serves as a non-binding description of our products and capabilities and does not constitute a guarantee of performance. The machine described is supplied by Separator Technology Solutions and its approved local representatives. Any resemblance to, or compatibility of parts with, competitor models is of a functional design nature and strictly should not be misconstrued as having further meaning. Machine shown on page 1 is not the STS 45 and is for illustration purposes only.

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