

STS 500

High Performance Separator Self-Cleaning Disk-Type Centrifuge



Highest Performance ... Proven Design

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
- Upper & Lower centripetal pumps

Monitoring + Control:

- Process dependant ejection control
- Product flow rate auto-control
- Oil flow monitoring + control
- Vibration monitoring + control
- Bowl speed monitoring + control
- Air + Water pressure monitoring + control

Alternative Designs:

- Relocatable system
- Gas-tight design
- 2-phase clarifier or 3-phase separator design

Benefits:

- precise automatic solids discharge
- low oxygen pick-up
- higher clarification efficiency
- optimal ejection performance for application
- lower noise level
- minimises vibrational severity
- low maintenance cost
- discharge product streams under pressure

- determines time for optimal solids ejection

(eg explosive media or environment)

STS 500 General Specifications:

- Bowl material in EN 1.4418 (*)
- Other Product contact surfaces in 316 SS (or higher *)
- Painted cast frame (optional stainless clad design)
- Bowl speed 4,800 rpm
- 55 - 75 kW main motor (*)
- VFD + Resistance brake (key safety feature for VFD centrifuges)
- Alan Bradley CPU (*)
- Alan Bradley Panelview Plus Colour screen (*)
- (*) Alternatives upon request

Proven Design + User-Friendly Controls = High Performance



The STS 500 Operator Control Interface—customised to your requirements

Performance Capabilities:

Typical Applications:

- Brewing
- Wine
- Dairy
- Coffee + Tea
- Protein
- Fruit + Vegetable Juices
- Citrus
- Rendering
- Wastewater + Environmental
- Nutraceuticals



An STS Series Clarifier installation at a South African beverages plant

Flow Rates - Typical Applications:

Beer Polishing	95 - 120 m ³ /hr
Hot Wort Separation	70 - 75 m ³ /hr
Cold Wort Separation	50 - 60 m ³ /hr
Protein Recovery	35 - 45 m ³ /hr
Citrus Pulp Clarification	20 - 35 m ³ /hr
Essential Oil Concentration	20—25 m ³ /hr
NFC Top Oil Separation	35 - 45 m ³ /hr
Milk or Whey Skimming	45 - 50 m ³ /hr

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

Price / Performance that separates the STS 500 above the rest

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