



Model STS 500 3P D - Warm Milk

STS 500 is a belt driven high speed 3 phase milk separator 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
- Stainless Steel clad machine frame

Process Data

- Solids Holding Space 21 liters
- Feed Pressure max 1.5 bar
- Usable discharge pressure heavy phase 2.5 bar
- Usable discharge pressure cream 2.5 bar

Application and Capacity

- Warm Milk Skimming 50,000 l/h
- Warm Milk Standardization 55,000 l/h
- Whey skimming 50,000 l/h
- Cream concentration 25,000 l/h

Benefits

- Precise automatic solids discharge
- Low oxygen pick-up
- Product degassing capabilities
- High skimming efficiency
- Optimized ejection performance for each application
- Lower noise level
- Minimizes vibrational severity
- Low maintenance cost
- Discharge product streams under pressure

Specifications

Monitoring + Control

- Selectable time dependent solids ejection control system
- Oil flow monitoring + control
- Bowl speed monitoring + control
- Air + Water pressure monitoring + control

Weight and dimensions

- Total weight Separator complete 4000 kg
- Bowl weight 1500 kg
- Minimum height of lifting hoist hook above Separator 3200 mm
- Minimum lifting capacity of hoist
 - 1500 kg for complete bowl
 - 500 kg for individual bowl parts
- Length 2300 mm, Width 1364 mm, Height 2050 mm

Utility requirements

- Installed motor size 90 kW, VFD controlled
- Operating water consumption 150 l/h
- Cooling water 200 l/h
- Control air 0.02 Nm³/h

General Specifications

- Bowl material in EN 1.4418 or optional Super Duplex
- Other Product contact surfaces in 316 SS or higher
- Stainless steel-clad frame
- Bowl speed 3000 rpm
- 90 kW main motor
- VFD for motor control
- Allen Bradley CPU*
- Allen Bradley PanelView Plus Color screen*
- HMI fully customized to customer requirements included.**

* Alternatives upon request. ** Based on agreed specifications

