



Pump Catalogue

**Advanced Pumping Solutions for the Food, Beverage,
Pharmaceutical, and Chemical Industries**

 STURSAN

Rev 03/2026



Centrifugal pumps

Lobe pumps



Emulsifiers and Blenders

SKIDS



Why choose Stursan?



Maximum hygiene and food safety.

Designed to the highest sanitary standards, our pumps guarantee clean, safe and reliable processes. Their hygienic design facilitates compliance with food regulations and ensures total product protection at every stage of the process.



Superior chemical resistance.

Manufactured in AISI 316L stainless steel, they offer extraordinary resistance to corrosion and wear. This translates into greater durability, less maintenance and maximum protection of the quality and safety of fluids. Ideal for working with saline solutions, brines, acidic products such as juices and fermented dairy products, as well as in CIP systems.



High energy efficiency.

Its optimised hydraulic engineering reduces friction and turbulence losses, enabling maximum performance with minimum energy consumption. Greater efficiency means lower operating costs and higher profitability for your plant.



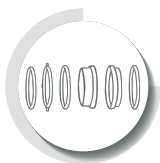
Quick and easy maintenance.

Thanks to its modular architecture and sanitary design, installation and dismantling are quick and practical. This reduces downtime, facilitates inspections and optimises maintenance tasks.



Robust and reliable construction.

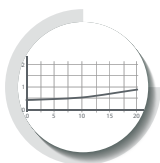
Its reinforced structure guarantees excellent mechanical resistance to vibrations, thermal variations and demanding operating conditions. Consistent performance even in high-demand industrial environments.



Intelligent standardisation.

The use of a common mechanical seal size across multiple models simplifies spare parts management, reduces inventory, and optimises costs.

CTF	CTF-05	CTF-10	CTF-15	CTF-20	CTF-25	CTF-30	CTF-35	CTF-40	CTF-45	
STF	STF-01	STF-02	STF-2D	STF-03	STF-3D	STF-04	STF-41	STF-4D	STF-05	STF-5D
JxTF	JxTF-1	JxTF-2	JxTF-3	JxTF-4	JxTF-5					
LTF	LTF-1	LTF-2	LTF-3	LTF-4	LTF-5	LTF-6				
LPTF	LPTF-03									



Lower NPSHr, greater protection.

The optimised hydraulic design minimises the required NPSHr, reducing the risk of cavitation and extending the service life of the equipment.



Careful handling of the product.

Stursan pumps ensure smooth, controlled pumping, ideal for sensitive fluids. They preserve the properties of the product, maintaining its quality intact from the beginning to the end of the process.

Centrifugal pumps

Pumps manufactured in AISI 316L stainless steel.

Their modular design enables easy maintenance, while ensuring reliable operation.

They provide a robust and durable solution, suitable for both demanding industrial processes and sanitary applications.

Centrifugal pumps for flooded suction

CTF Serie

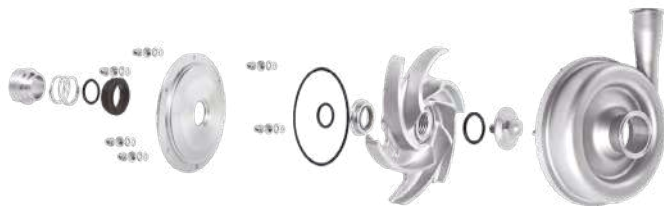


Centrifugal pump suitable for food and industrial applications

STF Serie

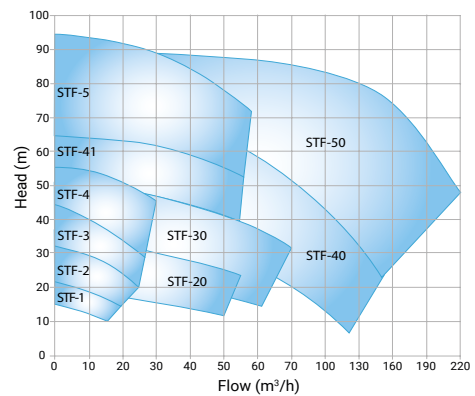
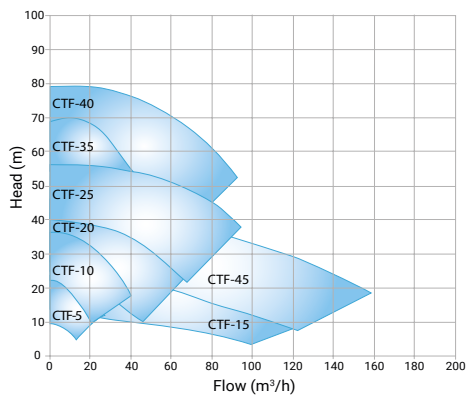


Centrifugal pump designed for pharmaceutical use (WFI, purified water, etc.)



- **Max. flow rate:**
160 m³/h - 2900 rpm
- **Max. differential pressure:** 80 m
- **Temperature:** From -10°C to 140°C
- **Max. power:** 30 KW

- **Max. flow rate:**
220 m³/h - 2900 rpm
- **Max. differential pressure:** 95 m
- **Temperature:** From -20°C to 180°C
- **Max. power:** 90 KW



Test conditions:

Water in standard conditions, 20°C,
impeller speed 2900 RPM

Centrifugal pumps

Self-priming centrifugal pumps

Handles fluids with air or gas bubbles. Ideal for CIP return systems and for draining tanks and pipelines.

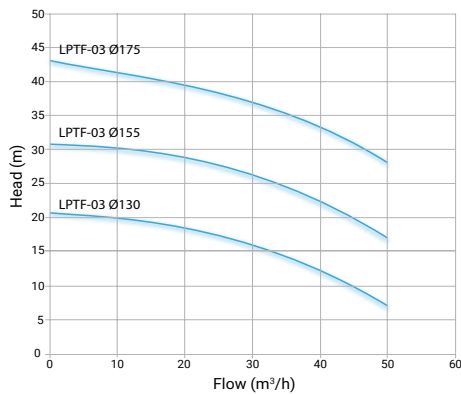
LPTF Serie



Self-priming centrifugal pump with inducer



- **Max. flow rate:**
50 m³/h - 2900 rpm
- **Max. differential pressure:** 42 m
- **Succión máxima:** 8 m
- **Temperature:** -20°C to 140°C
- **Max. power:** 22 KW



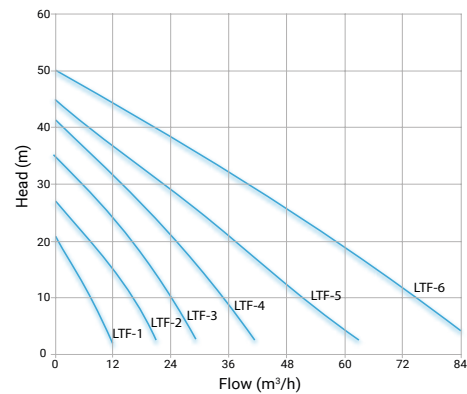
LTF Serie



Self-priming liquid ring centrifugal pump



- **Max. flow rate:**
84 m³/h - 1450 rpm
- **Max. differential pressure:** 50 m
- **Succión máxima:** 8 m
- **Temperature:** -20°C to 140°C
- **Max. power:** 15 KW



Test conditions:

Water in standard conditions, 20°C,
impeller speed 2900 RPM

Materials

- **Wetted parts:** Machined 316L stainless steel.
- **Impeller:** AISI-316L stainless steel. Open impellers of various diameters in the CTF and STF series.
- **Mechanical seal:** SiC/SiC or TC/TC single or double with flush.
- **FDA O-rings:** EPDM, FKM, NBR, FFKM and FPMX.

Surface finished

- Hygienic quality, hand-polished welds.
- Parts in contact with the fluid with options Ra <0.8, Ra<0.5, mechanical finishing, and electropolishing.

Connections

- **Industrial:** BSP thread, NPT thread, EN1092-2 flange
- **Sanitary:** DIN11851 thread, SMS thread, DIN11864-2 flange, ASME BPE clamp

Certificates and Compliance



CTF-STF



ATEX – certified product range:

The CTF and STF models are ATEX marked for use in:

- Areas with flammable gases/vapors:
ZONE 1 y ZONE 2 (**II 2G Ex h IIB/IIC T4 Gb**)
- Areas with combustibile dust:
ZONE 21 y ZONE 22 (**II 2GD Ex h IIIC T135°C Db Gb**)

Applications



- **Pharmaceuticals:** Water for injection (WFI) and purified water (PW).



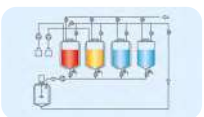
- **Food and beverage:** Juices, tea-based drinks, wine, beer, milk, dairy products.



- **Process:** Heat exchangers, filtration units, brine injectors.



- **Chemical industry application:** Pesticides, insecticides, herbicides, fertilisers.



- **CIP cleaning systems.**

Lobe pumps

Stursan lobe pumps are manufactured in 316L.

Designed for low and high viscosity fluids and have a characteristic smooth, low-shear pumping action, making them ideal for delicate materials, as well as for pumping organic solids in suspension, creams, foams, gels, emulsions and mixtures.

Serie RX



Stursan RX lobe pumps are manufactured in stainless steel, including both the wetted parts and the gearbox.

- **Max. flow rate:** 80 m³/h
- **Max. differential pressure:** 12 bar
- **Temperature:** 130 °C
- **Max. revolutions:** 900 r. p. m.
- **Viscosity:** 1.000 000 cps

Pump Model	Tri-lobe Rotor Capacity (L/r)	Speed (r/min)	Nominal Flow Rate (m ³ /h)	Maximum Discharge Pressure (bar)	Standard Connection DN (mm)	Enlarged Connection DN (mm)
RX01	0,02	900	2.3	9	20	25
RX02	0,1	900	7	9	25	40
RX2D	0,15	900	10	8	40	50
RX03	0,27	700	15	12	40	50
RX3D	0,3	700	20	8	50	65
RX04	0,67	600	30	12	50	65
RX4D	1,04	600	45	8	65	80
RX05	1,76	400	70	12	80	100
RX5D	2,4	400	80	8	100	125

Lobe pumps

Serie LX



Stursan LX lobe pumps are made of stainless steel.

Available with different types of rotors.

Ensure smooth, controlled pumping, ideal for sensitive fluids. They preserve the properties of the product, maintaining its quality intact from the beginning to the end of the process.

- **Max. flow rate:** 200 m³/h
- **Max. differential pressure:** 12 bar
- **Temperature:** 130 °C
- **Max. revolutions:** 720 r. p. m.
- **Viscosity:** De 1 a 1 000 000 cps

Pump Model	Tri-lobe Rotor Capacity (L/r)	Speed (r.p.m.)	Nominal Flow Rate (m ³ /h)	Maximum Discharge Pressure (bar)	Standard Connection DN (mm)	Enlarged Connection DN (mm)
LX15	0,04	10-720	0,5	12	15	25
LX25	0,15	10-720	2,0	12	25	40
LX40	0,32	10-500	5,0	12	40	50
LX50	0,65	10-500	10,0	12	50	65
LX60	1,1	10-500	15,0	12	65	80
LX65	1,74	10-500	20,0	12	65	80
LX75	2,6	10-500	30,0	12	80	100
LX80	3,65	10-500	40,0	12	100	125
LX100	5,20	10-500	60,0	12	125	150
LX125	6,80	10-500	80,0	12	125	150
LX140	9,80	10-400	120,0	12	150	200
LX150	12,80	10-400	150,0	12	150	200
LX200	16,00	10-300	200,0	12	200	250

Materials

- **Wetted parts:** Standard AISI-316L and AISI- 316 or AISI-304 as option.
- **Rotor:** AISI-316L or AISI-316 or AISI-304 stainless steel. Available with different types of rotors (LX).
- **Mechanical seal:** Single SiC/SiC or TC/TC with and without flush. Double SiC/SiC or TC/TC with flush. Special seal for chocolate (LX).
- **FDA O-rings:** EPDM, FKM, NBR, FPMX.

Surface finished

- Hygienic quality, hand-polished welds.
- Standard (parts in contact with the fluid Ra < 0.8).
 - On request (parts in contact with the fluid Ra < 0.5).

Connections

- **Industrial:** BSP thread, NPT thread, EN1092-2 flange
- **Sanitary:** DIN11851 thread, SMS thread, DIN11864-2 flange, ASME BPE clamp

Certificates and compliance



Applications



- **Food and drink:** Soups, stews, tomato paste, vegetables, dressings, chocolate, fats and oils, cream fillings, beer, must, soft drinks/fruit drinks, meat processing.



- **Dairy products:** Cream, milk, curd and whey, cottage cheese, yoghurt.



- **Pharmaceuticals and cosmetics:** Pill pastes, syrups, extracts, lotions, face creams and lotions, styling gels and liquids, dyes and alcohols, soaps, cosmetic products.

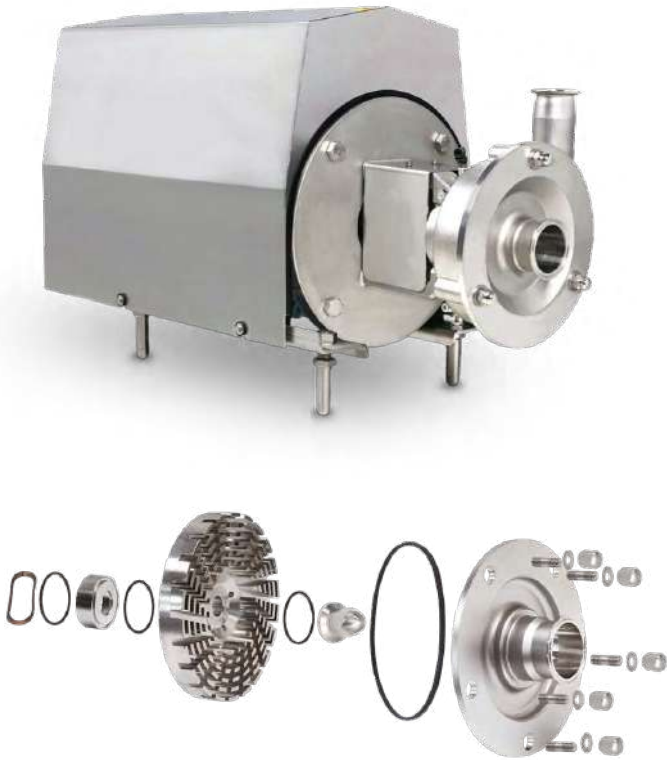


- **Chemical/Industrial:** Paints, resins, polymers and sludge, oils and lubricants.

Emulsifiers and Blenders

JxTF Series single-stage

Emulsifying homogenizing



High-efficiency shredder rotor. Handles tough materials with fibers or hard particles.



Delicate-product rotor. Perfect for fermented yogurts.



Standard shredder rotor. Designed for mashed potatoes and tomato sauces.

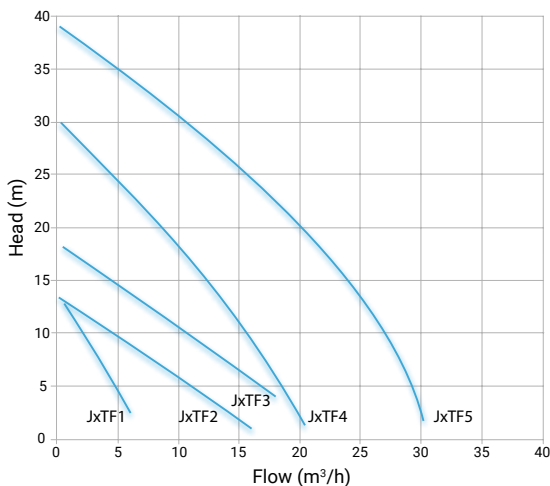


Transport-shearing rotor. Ideal for transport and homogenization.

Particularly suitable for in-line homogenisation and emulsification, widely used in industries such as food and beverage, biopharmaceutical, etc.

It can effectively mix multiple products, perform complete shearing and emulsification with cutting teeth, prevent agglomeration and solidification, and produce a stable emulsion.

- **Max. Flow Rate:** 30 m³/h
- **Temperature:** -20 °C to 180 °C
- **Max. power:** 55 KW
- **Pressure:** 0-39 m
- **Max. flush consumption:** 0.25-0.5 L/min
- **Max. inlet pressure:** 8 bar



Emulsifiers and Blenders

JZTF2 and JZTF3 Series multistage

Emulsifying homogenizing



- Max. flow rate: 50 m³/h - 2900 r.p.m.
- Mesh size: < 1000 mesh (200 μm)
- Temperature: -20 °C to 140 °C
- Max. power: 160 KW

Model	Viscosity (CPS)	Flow (m ³ /h)	Outlet pressure (bar)	Rotate Speed (r/min)	Inlet/Outlet	Weight (kg)
JZTF2-130	≤1500	8	1,5	2950	1,5"/1,5"-1,25" DN40/DN40-32	49
	≤3500	4	1,5	1450		
	≤6000	2,7	1,5	950		
JZTF2-150	≤700	12	2,0	2950	2"/1,5" DN50/40	54
	≤3000	6	2,0	1450		
	≤5000	4	2,0	950		
JZTF2-170	≤1000	15	2,0	2950	2,5"/2" DN65/50	57
	≤3000	7,5	2,0	1450		
	≤5000	5	2,0	950		
JZTF2-190	≤500	25	2,0	2950	2,5"/2,5" 3"/2,5"	78
	≤3000	12,5	2,0	1450		
	≤5000	8,3	2,0	950		
JZTF2-210	≤900	40	2,0	2950	3"/2,5" DN80/65	89
	≤2700	20	2,0	1450		
	≤5000	13,3	2,0	950		
JZTF2-240	≤550	65	2,0	2950	4"/3" DN100/80	104
	≤2300	32,5	2,0	1450		
	≤6000	21,7	2,0	950		

Model	Viscosity (CPS)	Flow (m ³ /h)	Outlet pressure (bar)	Rotate Speed (r/min)	Inlet/Outlet	Weight (kg)
JZTF3-130	≤1500	8	1,5	2950	1,5"/1,5"-1,25" DN40/DN40-32	56
	≤3500	4	1,5	1450		
	≤6000	2,7	1,5	950		
JZTF3-150	≤700	12	2,0	2950	2"/1,5" DN50/40	62
	≤3000	6	2,0	1450		
	≤5000	4	2,0	950		
JZTF3-170	≤1000	15	2,0	2950	2,5"/2" DN65/50	67
	≤3000	7,5	2,0	1450		
	≤5000	5	2,0	950		
JZTF3-190	≤500	25	2,0	2950	2,5"/2,5" 3"/2,5"	88
	≤3000	12,5	2,0	1450		
	≤5000	8,3	2,0	950		
JZTF3-210	≤900	40	2,0	2950	3"/2,5" DN80/65	102
	≤2700	20	2,0	1450		
	≤5000	13,3	2,0	950		
JZTF3-240	≤550	65	2,0	2950	4"/3" DN100/80	120
	≤2300	32,5	2,0	1450		
	≤6000	21,7	2,0	950		



Bottom drain valve



Single-stage discharge or sampling



All discharge or sampling



First stage stators and rotors



Second stage stators and rotors



Thrid stage stators and rotors

Emulsifiers and Blenders

HHQ Vertical and horizontal Series

Blender solid/liquid mixer

Solution for emulsifying, mixing, adjustable, multi-tasking powder and liquid mixing.

This mixing units are for mixing solid or powder into the liquid.



Model	Power	Outlet pressure (bar)	Flow (m ³ /h)	Applicable mixture viscosity	Hopper volume	Solid suction volume	Solid Inlet	Liquid Inlet	Outlet	Connection way
HHQ - 10	3kw	3,0	10	≤2000	45L	2000 kg/h	DN65-3"	DN40-1,5"	DN50-2"	Clamp, Thread
	5.5kw			≤3000						
HHQ - 20	4kw	3,0	20	≤2000	45L	3000 kg/h	DN65-3"	DN40-1,5"	DN50-2"	Clamp, Thread
	7.5kw			≤3000						
HHQ - 30	5.5kw	3,0	30	≤2000	45L	4200 kg/h	DN80-3,5"	DN50-2"	DN65-2,5"	Clamp, Thread
	11kw			≤3000						
HHQ - 40	7.5kw	3,0	40	≤2000	45L	5500 kg/h	DN80-3,5"	DN50-2"	DN65-2,5"	Clamp, Thread
	15kw			≤3000						
HHQ - 50	11kw	3,0	50	≤2000	65L	7000 kg/h	DN100-4"	2,5"	DN80-3"	Clamp, Thread
	18.5kw			≤3000						
HHQ - 60	15kw	3,0	60	≤2000	65L	9000 kg/h	DN100-4"	2,5"	DN80-3"	Clamp, Thread
	22kw			≤3000						

HHQ horizontal serie

- Max. Flow Rate: 9000 kg/h
- Max. thickeners processing capacity: 3000kg/h (Base on material's viscosity and density)
- Temperature: < 130°C



Materials

- **Wetted parts:** Machined 316L stainless steel.
- **Impeller:** AISI-316L stainless steel.
- **Mechanical seal:** SiC/SiC or TC/TC single or double with flush.
- **FDA O-rings:** EPDM, FKM, NBR, FFKM and FPMX.

Surface finished

- Hygienic quality, hand-polished welds.
- Parts in contact with the fluid with options Ra <0.8, Ra<0.5, mechanical finishing, and electropolishing.

Connections

- **Industrial:** BSP thread, NPT thread, EN1092-2 flange
- **Sanitary:** DIN11851 thread, SMS thread, DIN11864-2 flange, ASME BPE clamp

Certificates and compliance



Applications



- **Food and beverages:** Juice, jam, ice cream, dairy products, food additives, tea-based beverages, chocolate, soya milk, essence, salad dressing, chilli sauce, mayonnaise, tomato sauce, mustard, yoghurt, sour cream, pudding, etc.



- **Dairy chemicals:** Liquid detergent, liquid soap, facial cleanser, emulsified silicone oil, fragrance compound, skin care products, cosmetic products, cream, shampoo, shower gel, etc. Paints, resins, polymers and sludge, oils and lubricants.



- **Bio-pharmaceuticals:** Injection, antibiotic, drug emulsion, emulsifiable drug paste, medical devices, microcapsule emulsification, lotion, cell tissue grinding, etc.



- **Additives and Thickeners:** Aspartame, whole milk powder, salt, citric acid, sugar, egg powder, whey protein concentrate, calcium carbonate, honey, powdered flavouring and other additives, gelling agents, pectin, synthetic binding agents, starch, gelatin and other binding agents.



- **Fine chemical engineering:** Pigment, colourant, plastic additive, textile aid, adhesive, resin emulsion, thermoplastic glue, sealant, glue, sizing agent, finishing agent, surfactant, dye leveller, carbon black dispersion, anti-adhesive agent, textile finishing agent, brightener, leather auxiliaries, pigment paste, etc. The medium must be emulsified and homogenised.



- **Coating and ink:** Printing ink, oil paint, emulsion paint, coating, nanopaint, photopolymerisable coating, coating adhesive, carbon black dispersion, enamel, bentonite, colourant compounds, etc.



- **Pesticides:** Insecticide, herbicide, pesticide-miscible oil, fertiliser, inert ingredient, etc. The medium must be emulsified and homogenised.

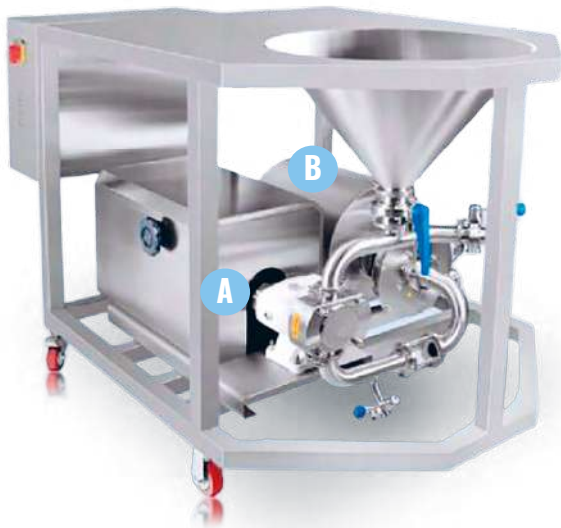


- **Semiconductors:** Dispersion and depolymerisation of nanometric materials, etc.

SKIDS

High-viscosity SKID

Complete system with hopper, emulsifier (B), and lobe pump (A) for viscous mixtures.



Lobe Pump



Emulsifying Pump



Powder and liquid are strongly sucked into the pump chamber.



The material is being homogeneously mixed.

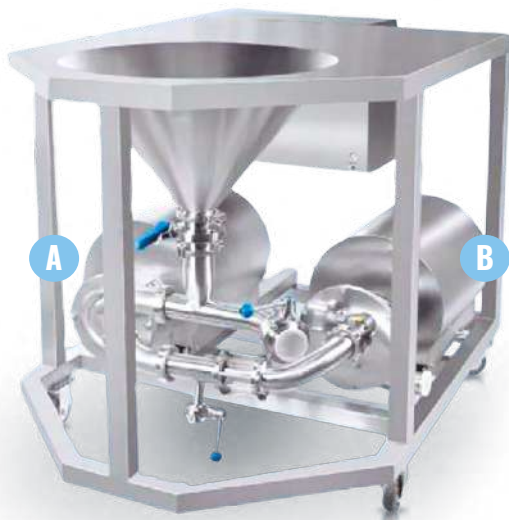


The homogeneous mixture is delivered to the tank equipment.

SKIDS

Low-viscosity SKID

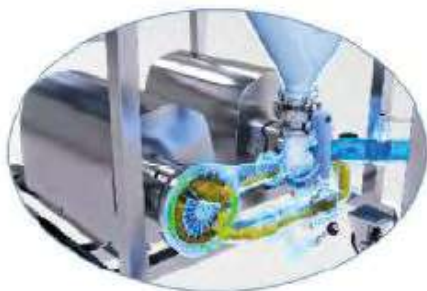
Complete system with hopper, emulsifier (A), and centrifugal pump (B) for thin liquids.



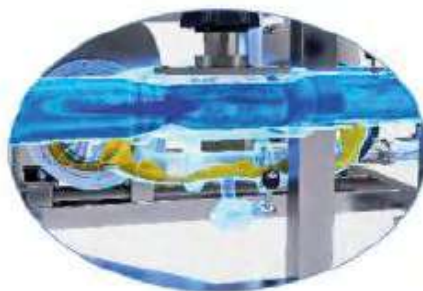
Emulsifying Pump



Centrifugal Pump



Powder and liquid are strongly sucked into the pump chamber.



The material is being homogeneously mixed.



The homogeneous mixture is transported to the tank equipment.

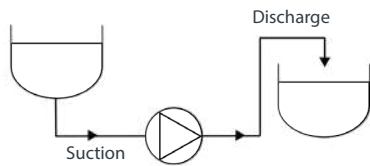
Application Data Sheet: Centrifugal and lobe pumps

Pump Type

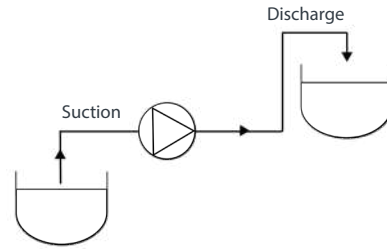
Centrifugal Lobe

Process Requirements

Positive installation head



Negative installation head



Suction Line

High (m) Length (m) Ø pipe (mm)

Adicional accesories

Discharge Line

High (m) Length (m) Ø pipe (mm)

Adicional accesories

Duty

Continuous Intermittent Hours per day

Assembly location Outside Inside

Corrosive environment Yes No Temperature environment and humidity

Process Parameters

Flow Rate l/min Max Pressure Bar

Fluid description

Name

Concentration

Max Viscosity (cP @ °C)

Does the end product tend to foam?

Density (Kg/m³)

No A Little A Lot

ProcessTemp (°C)

Is the fluid abrasive?

Max Temp (°C)

No Slightly Very

Solids Yes No Quantity (%) Size (mm)

Flow Properties similar to:

Requirements

Connections Polish Gasket material

Electrical Requirements

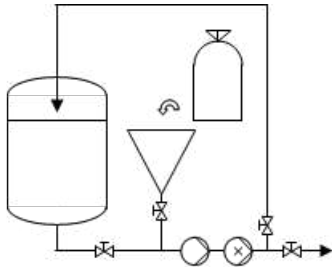
Voltage Phase Hz IP Inverter Yes No

Application Data Sheet: Mixing and Blending

Process Requirements

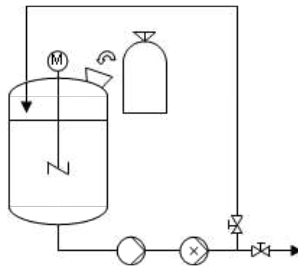
Process: Powder Induction

Inline addition of solids via hopper



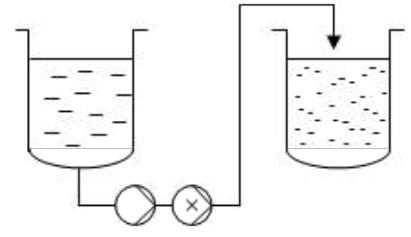
Process: Finish Mixing

Addition of ingredients into the holding tank.



Process: Blending

Single pass homogenization of a mixture out of a holding tank



- Dispersing
 Dissolving
 Emulsifying
 Reducing
 Smoothing

Process Parameters

Batch Size (liter) Flow Rate(l/min)
 Batch Process Time (min) Max Pressure (Bar)

End Product

Description
 Total Quantity (Kg | L) Does the end product tend to foam?
 Max Viscosity (cP @ °C) No A Little A Lot
 Density (Kg/m3) Is the end product abrasive?
 Max Temp °C No Slightly Very
 Flow Properties similar to:


Liquid Ingredients	Description	Qty (m3)	Density Kg/m3	Viscosity (cP)
Liquid 1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Liquid 2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>


Dry Ingredients	Description	Qty (m3)	Bulk Density Kg/m3	Soluble (y/n)
Powder 1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Powder 2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Electrical Requirements

Voltage Phase Hz IP Inverter Yes No



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 www.stursan.com