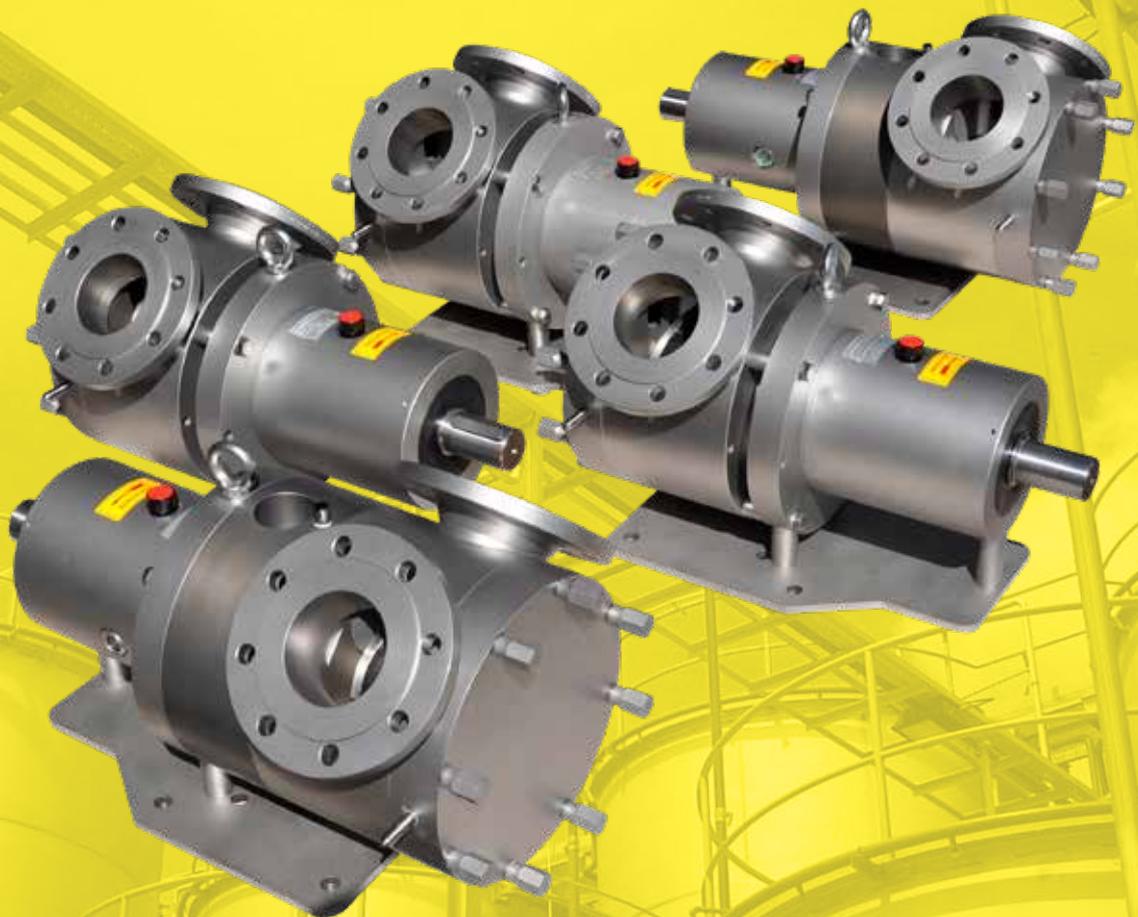


tapflo®

MONOBLOC SINUSOIDAL PUMP

2020 | 1



» All about your flow™

www.tapflo.com

» All about your flow™

We began our journey 40 years ago in Kungälv, a small town on the Swedish west coast, as a family company with an ambition to one day become a global player on the pump market.

Since 1980, we have taken pride in delivering a wealth of knowledge and passion for pumps to the industry, whilst supplying a wide range of premium products for various industrial applications.

Over the years, the company has developed into a global Tapflo Group with branches and distributors present in nearly every region of the world.

One thing did not change - we are still a family company.

Our solutions are designed and manufactured in Europe and distributed globally to offer the best service and flow solutions to our customers for a variety of applications.

Our values, Commitment, Quality and Simplicity are reflected both in our product and business approach.



For fast and flexible service and high-quality products readily available worldwide, choose Tapflo.

Quality commitment

At Tapflo we are simply committed to quality. As a result, our production standards, as well as products quality, comply with various globally recognised certification and quality control standards. The Tapflo manufacturing process is certified according to ISO 9001:2015, confirming that our processes are appropriate, effective, customer-focused and continuously improved.



Tapflo values

Our culture is concluded in Our values

Commitment

We are different from our competitors because of our willingness to exceed the customers' expectations, move fast and be flexible. Our culture is based on the spirit of togetherness, enthusiasm and integrity. We come from all over the world but we share the same values and we respect each other. We are committed.

Quality

We understand that the quality in our work is never better than the weakest link, that's why we focus on every small detail. We share a common passion for continuously finding more efficient and effective ways to provide value to our customers. As a manufacturer we have control of the complete process both in terms of our products and the way we operate internally. That is why we manufacture the highest quality pumps in our segment.

Simplicity

We have a saying, "Simple is art" which means we try to find smooth and uncomplicated solutions in everything. By keeping it simple we can focus on the essential, like designing uncomplicated pumps with few components. For us it is a key to success; strive to simplify what is complex.

Sinusoidal pump

Monobloc sinusoidal pump

The Soma Pump is a positive displacement pump developed by Manfred Sommer in 1982, and incorporates a sinusoidal curve shaped rotor, mounted on one pump shaft with one seal system.

The sinusoidal rotor design of SOMA pump delivers a lower shear, gentle pumping action that safely transfers delicate products without risk of degradation.



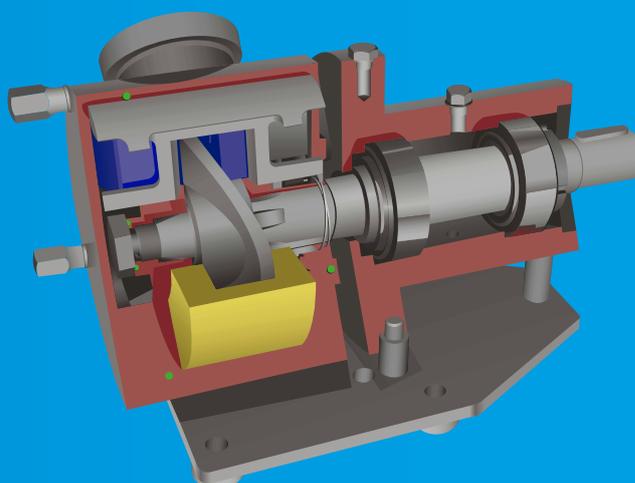
Features & Benefits

- ✓ **Simple maintenance**
Pumps are suitable for „inline maintenance“ – all main wearing parts can be exchanged inline without taking the pump out of the system.
- ✓ **Constant open inlet**
High viscous products can easily enter the pump without closing the inlet for a short period of time.
- ✓ **Limits**
Pump has an excellent self-suction capability and high discharge pressures
- ✓ **Suitable for low and high viscous products**
Gentle transfer especially when fragile parts are pumped. No foaming of the product when it is pumped.
- ✓ **Very low pulsation**
- ✓ **Pumps can run dry**
- ✓ **CIP and SIP possible**
- ✓ **Also a heating or cooling option is available**

Working principle

Due to the design of rotor, four chambers are created in which the product is transferred very gently – limiting shear while maintaining product integrity. It specializes in shear-sensitive and viscous applications with its powerful suction capabilities, spanning the food and beverage sanitary market across the globe.

A scraper gate surrounding the rotor provides the divide between the suction and the pressure side, the inlet and the outlet. The rotor does not run against the housing or the cover, as it sits in between liners that are replaced over time, meaning the housing has decades of staying power. In fact, SOMA Pumps GmbH offers a lifetime guarantee for the cover and the housing.



Wide range of applications

The increasing demand of the customers for even more gentle transfer of products is a fact. Regardless if soups, sauces, ready meals, salads, sausage emulsion or fruits in syrup – we have the most economical solution for nearly all applications.



Food products

Able to pump fruit or meat pie fillings without changing the structure of the product. Other applications are delicatessen salads or meat emulsions. Low shear, gentle pumping action avoids product damage and giving a high quality to the end product. The sinusoidal pump has superior suction capability. Even high viscous products can be transferred without any problem.



Cosmetic, chemicals & pharma

Bodylotions, Shampoos, Lotions or Bodypeelings. Free of pulsation and gentle. Highest surface quality – CIP cleanability. High viscous silicone products, glue, suspensions or detergents – shear sensitive or low viscous products – with or without force feed.



Dairy products

For pumping shear sensitive cheese curd and whey requires a PD Pump with a gentle pumping action to generate higher results by lowering the free fat content in whey. The sinusoidal pump is ideal for the transfer of sensitive dairy products.: Milk, Joghurt, Cheese curd, Butter, Soft or Hardcheese.



Beverages

The sinusoidal pump will transfer the concentrate without any shear to the product. The flow is constant and nearly without any pulsation. Also the sinusoidal pump can transfer low viscous products such as brewery yeast or thin apple juice concentrates.



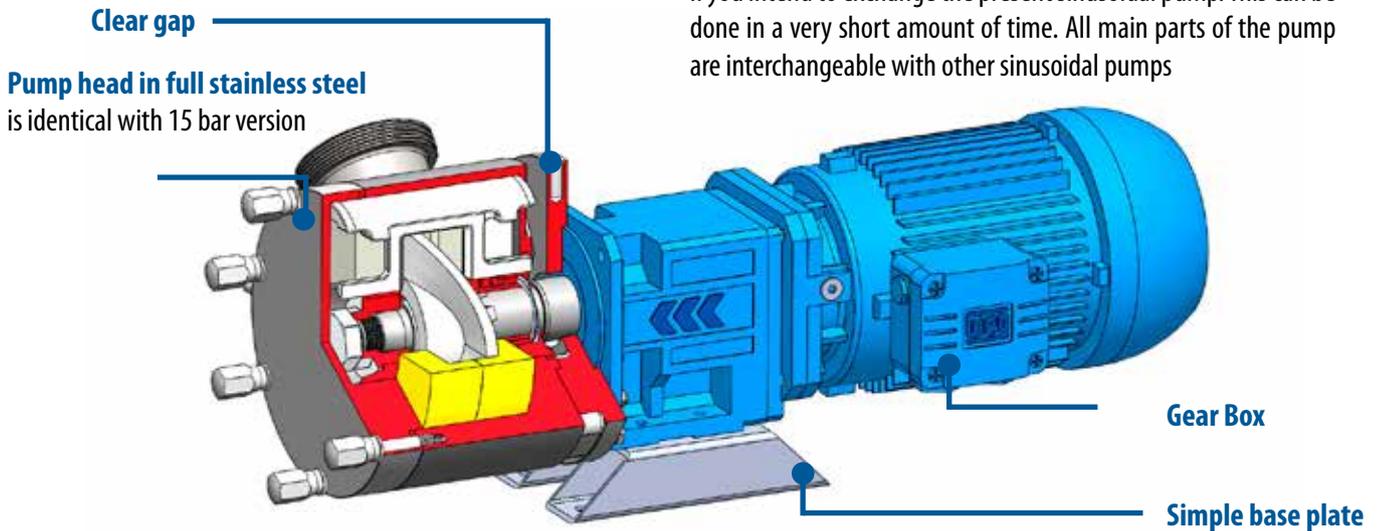
Confectionary industry

The Sinusoidal – Pump has the ability to pump high viscous and low viscous products without any damage or change in structure like: Chocolate, Caramel, Syrups, Liquid sugar, Fat, Candy, Christmascake, or Fruitfillings.

Construction

All main wearing parts can be exchanged in the system without removing the pump from piping. Unique design (very compact design) is ideal where product integrity is paramount. All spare parts are 100 % interchangeable with the standard version and other sinusoidal pumps manufacturers.

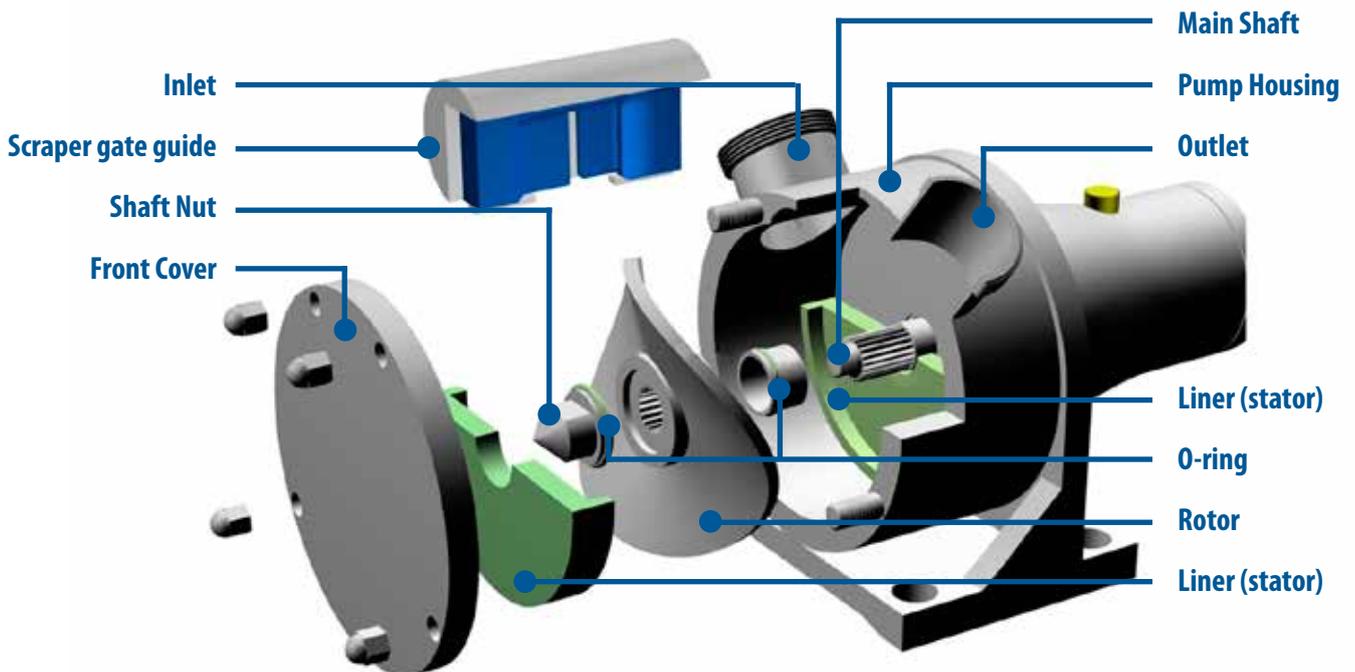
The pump will be supplied with a stainless steel conversion plate if you intend to exchange the present sinusoidal pump. This can be done in a very short amount of time. All main parts of the pump are interchangeable with other sinusoidal pumps



- » 6 Bar Pressure available in the sizes SCN 20D, SCN 25D, SCN 40D
- » 30 % price advantage against standard pump

The main spare parts of the Sinusoidal Pump

All materials are according to the common norms and requirements and they are available in different variations.

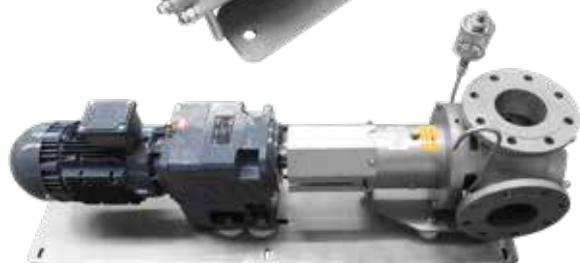


- » One shaft and one shaft seal
- » Unlimited guarantee for housing and cover

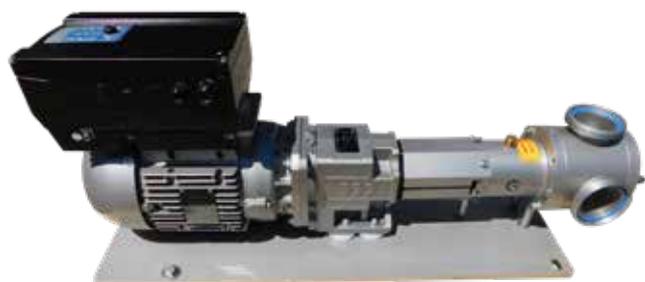
Options



Rectangular inlet port for extremely high viscosity products. Inlet area enlarged significantly comparing to standard shape, greatly improves inlet conditions.



Pump units assembled on stainless steel baseplates, adapted to customer's specific needs – built on VFD's, flushing systems, etc.



Technical data

Model	Max. particle size (mm)	Max. pressure (bar)	Speed	Max. flow (l/h)	Volume per revolution (l)	Max. temperature (°C)
SCN 10	10	10	1.000	3.180	0,053	125
SCN 20	18	10	1.000	4.000	0,11	125
SCN 20D	18	6	1.000	4.000	0,11	125
SCN 25	25	15	600	17.000	0,45	125
SCN 25D	25	6	600	17.000	0,45	125
SCN 40	35	15	600	38.000	1,05	125
SCN 40D	35	6	600	38.000	1,05	125
SCN 60	60	15	600	90.000	2,50	125

Available connections : Tri – Clamp, German Milk Fitting, SMS, RJT, flange connection, or on request

Materials, data and limits

Materials of Construction	316 Stainless Steel, Polyamide
Max Viscosity	2 000 000 centipoise CPS
Sizes Available	8
Seal Configurations	Mechanical seal systems or lip seal systems; FDA approved
Available Flanges	Tri-Clamp, DIN, SMS, ANSI 150# RF
Suction and Discharge Size (in)	1x1, 2x2, 3x3, 4x4, 6x6
Displacement per Revolution	0.06 - 2.50 l

Product range

Diaphragm pumps & accessories

NEW



Electrically operated pumps



PE & PTFE pumps



Metal pumps



Pharmaceutical pumps



Sanitary pumps



TC Intelligent pumps



Powder pumps



TF Filter press pumps

NEW



Steinle filter press pumps



Aseptic pumps

Peristaltic Pumps



Active pulsation dampeners



Systems & accessories



Trolleys



PT pumps



PTL pumps

Centrifugal pumps, filter units & accessories

NEW



CTX centrifugal pumps



CTI & CTH centrifugal pumps



CTS self-priming centrifugal pumps



CTV vertical centrifugal pumps



CTP plastic centrifugal pumps



CTM magnetic drive centrifugal pumps



Trolleys



FT Filter units

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Tapflo is represented worldwide by own Tapflo Group Companies and carefully selected distributors assuring highest Tapflo service quality for our customers' convenience.

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