



**Energy Efficient Fluid Transfer Technology**



**Sintech Precision Products Limited**

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**COMPLETE RANGE**  
**CATALOG**

[www.sintech.in](http://www.sintech.in)

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## VARIOUS APPLICATIONS

- WATER & WASTE WATER
- SUGAR
- ENERGY
- STEEL
- PULP AND PAPER
- PROCESS INDUSTRIES



## About US

Sintech Pumps was founded by Shri NC Dhingra in the year 1986 and is headquartered at Ghaziabad, NCR India. Sintech has state of the art facilities to cater the demand of various Industries around the world. We understand this critical aspect of the business and being one of the biggest pumping solutions providers in India, commands an indisputable brand loyalty.

With the combined experience of more than three decades and a dedicated nationwide network, provide manufacturing, sales, service and technical support to customers in the water utility, industrial and building services sectors

Sintech Pumps is among the most widely recognized and respected brands in the global pump industry, serving customers diverse multifarious applications like clear water, process, slurry, liquid with suspended solids, sewage, acids, alkalis, sea water and many more.

Sintech supplies pumps for the following applications

- > Water & waste water
- > Sugar
- > Energy
- > Steel
- > Pulp and Paper
- > Process industries



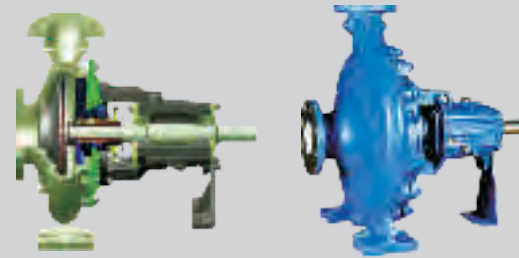
## PRODUCT RANGE



### Torque Flow Pumps STF

The Pump is very suitable where normal stock pumps cannot handle liquids due to plugging or abrasive wear. The principal of the hydrodynamic liquid coupling is used for the energy transfer to the pumping liquid. The impeller generates a whirlpool in the casing and this whirlpool acts as a pumping element (impeller) in the casing.

Discharge Sizes	: N.D. 25 - 500 mm
Capacity	: Upto 1500m <sup>3</sup> /hr.
Head	: Upto 100 Mtrs.
Solid Handled	: Upto 250 mm



### Process Pumps CPS/ SWP

This series is designed in accordance with ISO 5199 / ISO 2858, making it ideal for Worldwide chemical or industrial process applications. Back pull out design permits quick and easy access to rotating parts without disturbing suction and discharge pipes, electric motor, its connections and alignment. The pump is designed to achieve a low NPSH requirement and high efficiency. It is rugged in construction and is versatile in application.

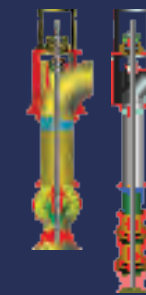
Capacity (Maximum)	: 1000m <sup>3</sup> /hr.
Head (Maximum)	: 140 m
Temperature	: 160° C
Working Pressure	: 14 kg/cm <sup>2</sup>



### Non Clog Pumps SAPP DS

These are specially designed pumps for Falling Film Evaporator and Juice applications in Sugar Industry. The pumps are Dynamically sealed where one repeller is used to avoid leakage and wasting of liquid from stuffing box. Repeller Reduces the pressure form stuffing box area and send back the liquid to suction line

Capacity (Maximum)	: 5700 m <sup>3</sup> /hr.
Head (Maximum)	: 126 m
Temperature	: 150° C
Working Pressure	: 12.6 kg/cm <sup>2</sup>



### Vertical Pumps SVT, SVMF & SVAF

Mixed Flow Pumps / Axial Flow / Vertical Turbine Pumps. This range of vertical pumps offer widest range of selection depending upon the pumping liquid from Clear Water to varying degrees of contamination. Hydraulic design of these pumps is based on most valuable and up to date technologies and experience available in the field. These pumps are designed to operate at 50Hz or 60 Hz, in single or more than

Capacity (Maximum)	: 35,000 m <sup>3</sup> /hr.
Head (Maximum)	: 300 m
Temperature	: 95° C
Working Pressure	: 35 kg/cm <sup>2</sup>



### Split Casing Pumps Double Suction SCS Split Casing Pumps Single Suction 2 Stage SCSD

This range provides a higher efficiency with lower maintenance. Development of this new range followed an extensive consultation with major users. This has produced an advanced pump which provides total reliability and reduced life cycle cost.

This Pump can be Installed as  
- Horizontal coupled  
- Vertical open coupled  
- Vertical close coupled

Capacity (Maximum)	: 22000 m <sup>3</sup> /hr.
Head (Maximum)	: 180 m
Temperature	: 110° C
Working Pressure	: 18 kg/cm <sup>2</sup>



### Process Pumps CPS DS

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Capacity (Maximum)	: 1000 m <sup>3</sup> /hr.
Head (Maximum)	: 140 m
Temperature	: 160° C
Working Pressure	: 14 kg/cm <sup>2</sup>



### Process Pumps for Pulp & Stock SAPP

It is a highly efficient Pump for handling sulphite, Sulphate (Kraft) and waste stock. It is also suitable for other types of thick, Pulpy mixtures in various applications through out industry. This series handles all kind of stock up to 6% consistency, and can be used for higher consistencies in special condition. Smooth and extra heavy casing and Impellers, prevents clogging or air locking. Applications : Sugar Melt, Syrup, Mud, Affluent Fludge etc.

Size upto	: 350 mm
Capacity upto	: 1800 m <sup>3</sup> /hr
Head upto	: 125 m
Temperature upto	: 150° C



### Multistage High Pressure Pumps SMS-L&H

#### Application

- > Fire Fighting
- > Boiler Feed
- > Hilly area water supply
- > Sprinkler System
- > Water works
- > Booster Service
- > Reverse Osmosis
- > Condensate Transfer

Capacity (Maximum)	: 300 m <sup>3</sup> /hr.
Head (Maximum)	: 2,000 m
Temperature	: 150° C
Working Pressure	: 150 kg/cm <sup>2</sup>

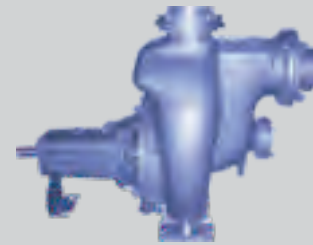
## PRODUCT RANGE



### Horizontal Mixed - Flow Pumps **SMF**

The SMF series are single-stage centrifugal pumps suitable for handling pure or contaminated liquids in large quantities. These pumps are of robust construction and have long working life. These pumps are highly efficient resulting in low energy consumption.

Capacity (Maximum)	: 7,000 m <sup>3</sup> /hr.
Head (Maximum)	: 45 m
Temperature	: 50° C
Working Pressure	: 4 kg/cm <sup>2</sup>

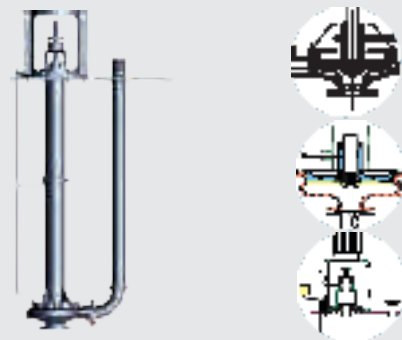


### Self Priming Pumps **SSP**

#### Application

- > Effluent with abrasive solids
- > Ash Slurry
- > Slag granulation
- > Wet scrubber
- > River water with silt
- > Sewage
- > Mine water with silt & sludge

Capacity (Maximum)	: 350 m <sup>3</sup> /hr.
Head (Maximum)	: 50 m
Temperature	: 80° C
Working Pressure	: 5 kg/cm <sup>2</sup>



### Vertical Sump Pumps **STFV,CPSV/SAPPV**

Closed type and semi-open type impeller designs are offered to handle a variety of liquids. Impeller and casing are designed for maximum hydraulic efficiency and minimum thrust on rotating assembly. Unique space-saving design due to vertical mounting of pump. Impeller and casing are totally submerged in liquid so no priming or air venting is required. Inside tank and outside tank mounting designs available for respective applications.

Capacity (Maximum)	: 600 m <sup>3</sup> /hr.
Head (Maximum)	: 100 m
Temperature	: 80° C
Working Pressure	: 10 kg/cm <sup>2</sup>



### Rota Pumps for Magma Masecuite **SRP**

These Pumps are specially designed for Magma and Masecuite application in Sugar Industry. The pumping principle is very simple. An elliptical shaped rotor rotates in a cylindrical housing. The pumped medium is trapped in the cavities formed between the rotor and the housing, and is carried round from suction to delivery side

Capacity	: 100 Ton /hr.
Head	: 60 m
Temperature	: 50° C
Working Pressure	: 6 kg/cm <sup>2</sup>

## POWER

Sintech provides most Reliable, efficient and innovative products to cater the growing demands for both conventional and super critical technology based Thermal Power Plants. Pumps being the most important component of any Thermal Power plant, we understand and implement our deep knowledge of the application and strict quality control procedures are adopted at every stage of Design, Manufacturing and Inspection. Sintech offers pumps for all the major applications including Condensate, Boiler Circulation Pumps, Heater Drain, Boiler feed, Auxiliary systems, Service Water application, Ash Slurry, Fuel oil, Fire protection system and other miscellaneous

### SCS



This range provides a higher efficiency with lower maintenance.

Development of this new range followed an extensive consultation with major users. This has produced an advanced pump, which provides total reliability and reduced life cycle cost.

- This Pump can be Installed as
- Horizontal coupled
  - Vertical open coupled
  - Vertical close coupled

- Improved Hydraulics
- \*Stiff Shaft Design
- \*Simple Maintenance
- \*Increased Component Life with More corrosion allowance
- \*Enhanced Performance
- \*Increased Efficiency
- \*Low Hydraulic Loads

### CPS

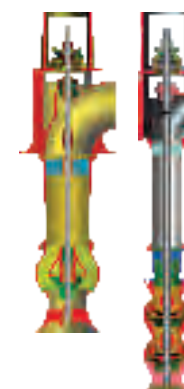


This series is designed in accordance with ISO 5199 / ISO 2858, making it ideal for Worldwide chemical or industrial process applications.

Back pull out design permits quick and easy access to rotating parts without disturbing suction and discharge pipes, electric motor, its connections and alignment. The pump is designed to achieve a low NPSH requirement and high efficiency. It is rugged in construction and is versatile in application.

- \*Heavy Duty Shaft designed for toughest services.
- \*Hydraulically and Mechanically Balanced Impeller
- \*Reduced operating cost
- \*Versatile shaft seal
- \*Robust deep groove ball bearings ensure high operating reliability.
- \*High interchangeability ensures fast delivery and low inventory.
- \*Environment friendly with Lower noise and vibration levels

### SVT



This range of vertical pumps offer widest range of selection depending upon the pumping liquid from Clear Water to varying degrees of contamination.

Hydraulic design of these pumps is based on most valuable and up to date technologies and experience available in the field.

These pumps are designed to operate at 50Hz or 60 Hz, in single or more than one stage according to head required.

- \*Capacity up to 35000 M3
- \*Takes little space in plan since the liquid is led away to the axis of shaft.
- \*The pump does not require to be primed and is always ready for use.
- \*The positive suction condition also prevents the cavitation in the pump and pitting in impeller & diffuser.
- \*Due to positive head at suction the pump gives its rated performance as well as high overall efficiency



# STEEL

Equipment Reliability is the foremost requirement of any Steel Making plant Sintech provides most Reliable, efficient and innovative products to cater the growing demands of Steel Industry. We understand and implement our deep knowledge of the application and strict quality control procedures are adopted at every stage of Design, Manufacturing and Inspection. Sintech offers Tailor Made pumps for all the major applications including Cooling systems, Sinter Plant, Slag Granulation, Water Treatment, Fire protection system and other miscellaneous package.

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# SUGAR

sintech Produces widest range of pumps for the sugar processing industry. Sintech has experience of more than 3 Decades in supplying Pumps for Mill House and Boiling House and is proud to have association with more than 650 Sugar Factories worldwide. With experience of Plants as Small as 500 TCD and as big as 25000 TCD, Sintech has managed to produce Tailor Made Pumps for every application for a Sugar Processing Plant. The company has specially designed pumps for FFE and Juice Re-Circulation, Syrup/ Melt, Mill House / Diffuser, Screened Juice, Imbibition Water, Sulphited Juice, Raw Juice, High Chrome Steel Pumps for Ash Slurry and Milk of Lime application, Spray and Injection application and Rota Pumps for Magma and Masecuite.

## STF



These specially designed Pumps for Mill House/ Diffuser are very suitable where conventional non-clog pumps cannot handle liquids due to plugging or abrasive wear. The principal of the hydrodynamic liquid coupling is used for the energy transfer to the pumping liquid. The impeller generates a whirlpool in the casing and this whirlpool acts as a pumping element (impeller) in the casing.

- \* Un-obstructed passage to the discharge size of the pump.
- \* Handles large solids & long fibers.
- \* Gentle pumping action, no flocs / crystal damage.
- \* Low maintenance cost, no sealing rings on impeller, no small clearances to be maintained.
- \* Handles abrasive slurries.
- \* Handles vulnerable products like vegetables, fish, crystals etc.
- \* Vibration free running due to hydraulically balanced construction.
- \* Low leakage.

## CPS DS



These are specially designed pumps for Falling Film Evaporator and Juice applications in Sugar Industry. The pumps are Dynamically sealed where one repeller is used to avoid leakage and wasting of liquid from stuffing box. Repeller Reduces the pressure form stuffing box area and send back the liquid to suction line

- \* IBack pull out type bearing frame assembly.
- \* Hydraulically balanced, closed impeller for long life and high efficiency performance.
- \* Heavy duty shaft with maximum deflection less than 0.05mm.
- \* Special designed stainless steel impeller nut with helical spring insert to lock the impeller properly.
- \* Heavy sections to withstand high pressure and temperature.
- \* Standard bearings are designed for a minimum average life of 20000 hours.

## SMF



The SMF series are single-stage centrifugal pumps suitable for handling pure or contaminated liquids in large quantities. These pumps are of robust construction and have long working life. These pumps are highly efficient resulting in low energy consumption.

- \* Semi-open impeller, hydraulically balanced
- \* Handles abrasive slurries.
- \* High flow up to 7000 M3
- \* Heavy duty bearing for maximum life.

# PAPER

Sintech brings the latest technology to the unique Paper making process. The pumping of stock is one of the most crucial operations in Paper and Pulp Industry. Stock pumping solutions are traditionally divided into low consistency [0-6%] range and medium consistency [6-10%] range. Sintech offers pumps for all consistency range without comprising on efficiency and overall performance. Specially designed SAPP range for intermediate consistency [3-8%] range helps users save minimum of 5 % on Energy cost as compared to a conventional pump. Sintech also offer tailor made solutions for all other Paper making process applications.

## SAPP



It is a highly efficient Pump for handling sulphite, Sulphate (Kraft) and waste stock. It is also suitable for other types of thick, Pulpy mixtures in various applications through out industry. This series handles all kind of stock up to 6% consistency, and can be used for higher consistencies in special condition. Smooth and extra heavy casing and Impellers, prevents clogging or air locking.

- \* Semi-open impeller hydraulically balanced.
- \* Oversized rugged shaft to minimize corrosion.
- \* Stuffing box easily converted from gland packing to mechanical seal.
- \* Heavy duty bearing for maximum life.
- \* Oil lubrication.

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# WATER

Water being indispensable for the existence of Humankind, has become one of our most precious resources. Water has become critical to our way of life, small fraction of fresh water is available in our planet, and hence efficient management of this scarce and precious resource has become imperative. Sintech provides reliable solution for water and wastewater transport. Whether it is for a Sea Water intake for a Desalination plant or Canal water transport for agricultural irrigation, we have got all solutions under one roof.

Our Range includes Large Axial flow pumps which can transport up to 35000 Cubic Meter of water every hour, Pumps in Super Duplex Steel for a Sea Water Desalination, Trouble free Non Clog pumps for Sewage and various other solutions to cater needs of diverse applications.

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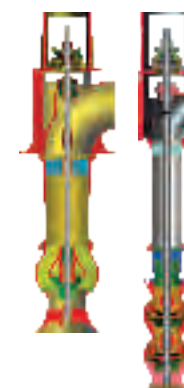
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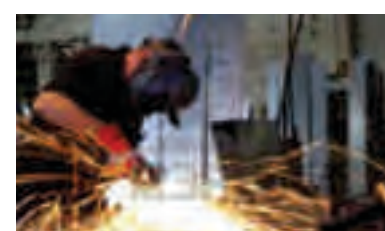


# VALUE ADDED SERVICES

Installation  
&  
Commissioning

Upgrades

Services



## Installation & Commissioning

With all necessary Skills for the Job, we ensure all equipment's installed are compliant to the customer's requirement.

## Upgrades

Improve pump performance of your existing pump through one of our upgrade solutions. We offer Hydraulic Modification, Metallurgy upgrades to suit the exact requirement and Mechanical Upgrades.

## Services

Services ranging from full plant maintenance, Spares and obsolete spares management, Maintenance and operator training and improving system reliability are some of the services provided by Sintech.



SELECTION CHART

			Water and Waster Water									SUGAR													Power					Paper										
Pump Series	Pump Model	Pump Type	RAW WATER PUMP	RIVER WATER INTAKE	SEA WATER INTAKE	STORM WATER DRAINAGE	RAW SEWAGE	BIOLOGICAL SLUDGE	EFFLUENT SERVICE	SERVICE WATER	FIRE FIGHTING SERVICES	UNSCREENED JUICE	IMBIBITION JUICE	SCREENED JUICE	CONDENSATE	MUDDY JUICE	FILTRATE	SYRUP	MELT	INJECTION WATER	SPRAY WATER	DIFFUSER	FALLING FILM EVAPORATER	MILK OF LIME	ASH SLURRY	BOILER FEED PUMP	CIRCULATING WATER	BOILER CIRCULATION	BOOSTER PUMP	COOLING WATER PUMP	ASH WATER DRAINAGE	PULP AND STOCK UPTO 6% CONSISTENCY	LIQUORS AND SLURRIES	COOKING LIQUOR	BLACK LIQUOR	GREEN LIQUOR	LIME SLURRIES	HEAVY BLACK LIQUOR		
END SUCTION PUMPS	CPS DS / CPS	CLOSED IMPELLER																																						
	SAPP DS / SAPP	SEMI OPEN IMPELLER																																						
	UMHQ	SEMI OPEN IMPELLER																																						
	SWP																																							
HORIZONTAL SPLIT CASING PUMPS	SCS	CLOSED IMPELLER																																						
	SCSD	CLOSED IMPELLER																																						
VERTICAL PUMPS	SVT	CLOSED IMPELLER																																						
	SVMF	SEMI OPEN IMPELLER																																						
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