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**SAM TURBO INDUSTRY PRIVATE LIMITED**

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Our **pumps** are  
your stepping stones  
to **success!**



The Most Advanced Centrifugal Pumps  
For Pulp & Paper Mills



Excellence • Through • Innovation

# Introduction



Dear Customer,

We are the leading supplier of pumps for **Paper Mills**, for all applications like **Pulp stock (up to 12% consistency), liquor, acids, water** etc, since 1972.

In almost all the paper industries in India, SAM pumps are running including Ballarpur Industries Ltd., ITC Ltd, Trident, Khanna Paper, TNPL, International Paper, Emami Paper, Venkraft Paper, NR Agarwal etc. Our pumps are running in many mills abroad including MEPCO, Mufindi Paper, Everest, Chandaria etc.

Today SAM is an acknowledged leader and continues to combine innovative design and material with most advanced manufacturing techniques to ensure unequaled quality and reliability.

Any pump is only as good as the material it is made from. We have captive steel foundry producing castings of 450 MT / month with spectrovac / PMI facilities.

We are quite confident that once you start using our energy efficient pumps, you will standardize the same for all your pump requirements.

We look forward to receive your valuable enquires.

Thanking you,  
Yours faithfully,

For **SAM TURBO INDUSTRY PRIVATE LIMITED.,**

**S.K. SENTIL KUMAR**  
Managing Director



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# Infrastructure





## TPS

### PULP & PAPER STOCK PUMPS



#### Operating Range

Delivery Size : DN 32 to 350 mm  
Capacity : Up to 2250m<sup>3</sup>/hr  
Head : Up to 80 m  
Temperature : Up to 140°C  
Pressure : Up to 22 bar

#### Application

- ▶ Handling pulp & paper stocks upto 7% consistency
- ▶ All liquor applications in pulp & paper industries
- ▶ Suitable for high capacity requirement of acids, alkaline, corrosive slurries etc.,
- ▶ Suitable for heavily contaminated liquids, raw sewage, sludge



#### Features

- ▶ Heavy Duty Centrifugal Design
- ▶ Conforming to DIN 24256
- ▶ Open impellers with renewable front wear plate and closed impeller with wear - ring
- ▶ Simple external adjustment for impeller wear
- ▶ Gland packed / mechanical seal / dynamic seal



## SPS

### PULP & PAPER STOCK PUMPS



#### Operating Range

Delivery Size : DN 32 to 300 mm  
Capacity : Up to 1800m<sup>3</sup>/hr  
Head : Up to 150 m  
Temperature : Up to 140°C  
Pressure : Up to 22 bar

#### Application

- ▶ Handling pulp & paper stocks upto 7% consistency
- ▶ All liquor applications in pulp & paper industries
- ▶ Suitable for heavily contaminated liquids, raw sewage & sludge



#### Features

- ▶ DIN 24256 Std
- ▶ Open impellers with renewable front wear plate and closed impeller with wear - ring
- ▶ Simple external adjustment for impeller wear from suction side
- ▶ Gland packed / mechanical seal / dynamic Seal



## ZM / AD HORIZONTAL SPLIT CASE PUMPS



### Operating Range

Delivery Size : DN 50 to 700 mm  
Capacity : Up to 4000m<sup>3</sup>/hr  
Head : Up to 140 m  
Temperature : Up to 220°C  
Pressure : Up to 40 bar



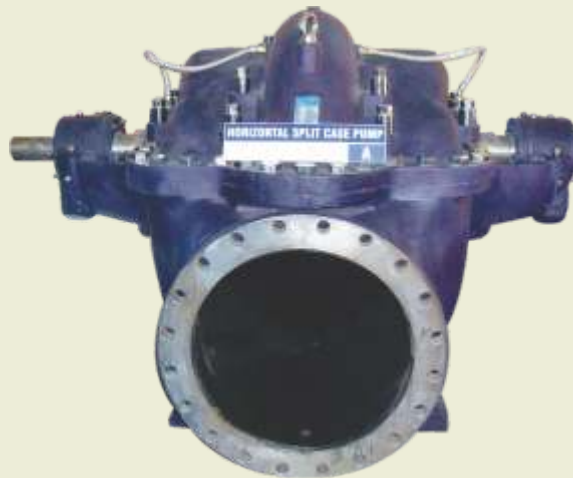
### Application

- ▶ Fan pump
- ▶ Stock feed
- ▶ Stock circulation
- ▶ Centricleaner
- ▶ Cooling tower



### Features

- ▶ Axial split, single / two stage
- ▶ Double suction, radial staggered vane impeller
- ▶ High reliability & vibration free performances
- ▶ Gland packing / mechanical seal
- ▶ Reverse rotation available



## CPC CHEMICAL PUMPS



### Operating Range

Delivery Size : DN 32 to 200 mm  
Capacity : Up to 750m<sup>3</sup>/hr  
Head : Up to 150 m  
Temperature : Up to 200°C  
Pressure : Up to 22 bar



### Application

- ▶ Pulp less than 1.5% Consistency
- ▶ Clarified water
- ▶ Back water
- ▶ White water
- ▶ De-inking water
- ▶ Soft water



### Features

- ▶ Conforming to DIN 24256/ISO 2858
- ▶ Back pull out design
- ▶ Engineered to API - 610 - 6th edition
- ▶ Only four bearing beds to cover 32 models
- ▶ Closed impeller
- ▶ Gland packed / Mechanical seal



## TCH + N PROCESS PUMPS



### Operating Range

Delivery Size : DN 25 to 200 mm  
Capacity : Up to 700m<sup>3</sup>/hr  
Head : Up to 180 m  
Temperature : Up to 200°C  
Pressure : Up to 26 bar



### Application

- ▶ Green liquor
- ▶ Black liquor
- ▶ Caustic slurry
- ▶ Pulp 1.5 to 2%
- ▶ Lime-mud slurry extraction
- ▶ Alkalies    ▶ Acids
- ▶ NaOH       ▶ China clay
- ▶ Filtrate    ▶ Hypo
- ▶ Spent wash ▶ Starch etc.



### Features

- ▶ Conforming to ANSI B73.1
- ▶ Open impeller construction
- ▶ End suction / Top centre line discharge
- ▶ Only 3 bearing beds to cover 32 models
- ▶ Gland packed / mechanical seal
- ▶ Simple external adjustment for impeller wear

## AR/ARS SLURRY PUMPS



### Operating Range

Delivery Size : DN 50 to 400 mm  
Capacity : Up to 2000m<sup>3</sup>/hr  
Head : Up to 60 m/stage  
Temperature : Up to 110°C  
Pressure : Up to 25 bar

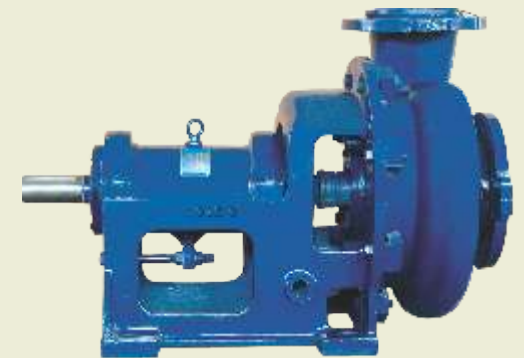


### Application

- ▶ Liquor with high solid contents
- ▶ Lime mud slurry
- ▶ Milk of lime
- ▶ Ash slurry
- ▶ Alkaline and slurry

### Features

- ▶ Twin casing / Single casing design
- ▶ Heavy duty & single stage
- ▶ Outer casing in CI / carbon steel
- ▶ Inner casing in Ni-hard / Hi-chrome to take entire wear





## TPS + H MEDIUM CONSISTENCY PUMPS



### Operating Range

Delivery Size : DN 80 to 200 mm  
Capacity : Up to 500m<sup>3</sup>/hr  
Head : Up to 140 m  
Temperature : Up to 150°C  
Pressure : Up to 22 bar



### Application

- ▶ Reliable pumping of pulp stock from 8% to 12% consistency
- ▶ Supplied along with vacuum pump - in-built / external mounted



### Features

- ▶ Centrifugal & Single stage
- ▶ Open impeller with fluidizer
- ▶ Sturdy & vibration free casing mounting to the base

## MD MULTI STAGE PUMPS



### Operating Range

Delivery Size : DN 40 to 125 mm  
Capacity : Up to 350m<sup>3</sup>/hr  
Head : Up to 600 m  
Temperature : Up to 120°C  
Pressure : Up to 90 bar

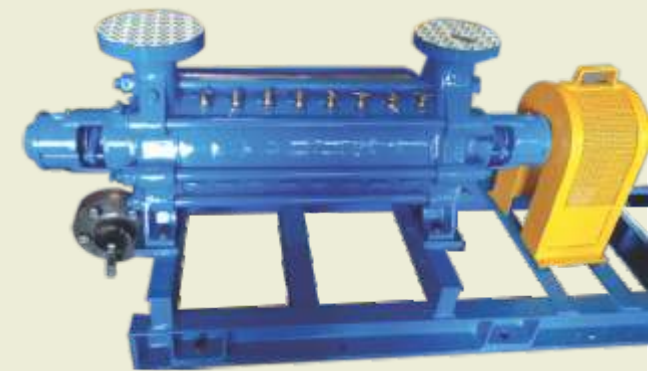
### Application

- ▶ High pressure application in pulp & paper mills
- ▶ Boiler feed water service
- ▶ Main & auxiliary condensate extraction
- ▶ General water & fire - fighting systems
- ▶ Mine - dewatering & descaling



### Features

- ▶ Barrel type construction
- ▶ Multi stage with single suction - closed impeller
- ▶ Axial thrust compensated by balancing drum



**MF**  
MIXED  
FLOW PUMPS



**Operating Range**

Delivery Size : DN 200 to 450 mm  
 Capacity : Up to 3000m<sup>3</sup>/hr  
 Head : Up to 40 m  
 Temperature : Up to 110°C  
 Pressure : Up to 7.5 bar



**Application**

- ▶ Stock feed
- ▶ Stock circulation
- ▶ Clear Liquid
- ▶ Turbid or slightly contaminated liquids



**Features**

- ▶ Horizontal, Single stage
- ▶ End suction & discharge branch arranged tangentially upwards / Horizontal
- ▶ Open impeller construction

**WP**  
WATER PUMPS



**Operating Range**

Delivery Size : DN 32 to 150 mm  
 Capacity : Up to 550m<sup>3</sup>/hr  
 Head : Up to 100 m  
 Temperature : Up to 120°C  
 Pressure : Up to 12 bar



**Features**

- ▶ Conforming to DIN 24255
- ▶ Back pull out design
- ▶ Gland packed / Mechanical seal
- ▶ Closed impeller construction
- ▶ Only 3 bearing beds to cover 30 models

**Application**

- ▶ Clarified water
- ▶ Back water
- ▶ White water
- ▶ De-inking water
- ▶ Soft water
- ▶ Centri cleaner etc.



**FF/ THM**  
**VORTEX**  
**NON CLOG**  
**PUMPS**



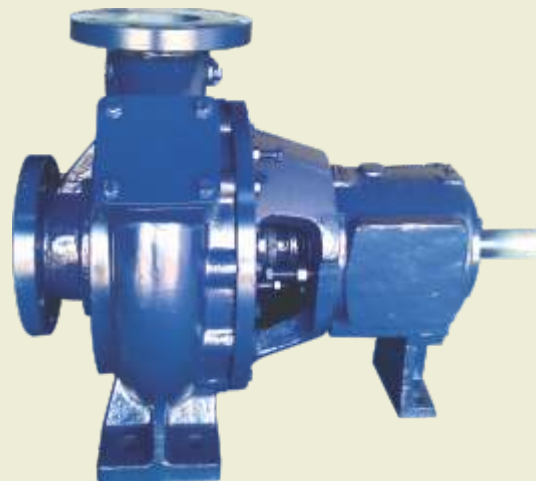
**Operating Range**

Delivery Size : DN 32 to 150 mm  
 Capacity : Up to 350m<sup>3</sup>/hr  
 Head : Up to 50 m  
 Temperature : Up to 120°C  
 Pressure : Up to 12 bar



**Application**

- ▶ For any liquid having big particles (Up to 75mm)
- ▶ For sludge, pulp, Ossein, slurry applications



**Features**

- ▶ Non-clogging operation, fully free Vortex design
- ▶ Any solid that can enter the pump will pass through the discharge
- ▶ Minimum particle degradation, sudden changes in direction & turbulence have been eliminated
- ▶ Fluid does not pass through the impeller; particle leaves in single rotation

**VO/VG**  
**VERTICAL**  
**PUMPS**



**Operating Range**

Delivery Size : DN 25 to 300 mm  
 Capacity : Up to 900m<sup>3</sup>/hr  
 Head : Up to 120 m  
 Temperature : Up to 120°C  
 Pressure : Up to 22 bar



**Application**

- ▶ Waste water, sludge handling in pulp & paper industries
- ▶ Suitable where space economy matters
- ▶ Acids
- ▶ Alkalies & Slurries in basic metal industries

**Features**

- ▶ Vertical suspended with open / closed impellers
- ▶ Cantilever design & with intermediate bush bearing support
- ▶ Simple mounting & self priming
- ▶ Upto 10 mtrs submersion depth
- ▶ Simple, fast external impeller adjustment

