



*Flosys*

**PROGRESSIVE CAVITY PUMPS  
FOR PAPER INDUSTRY**



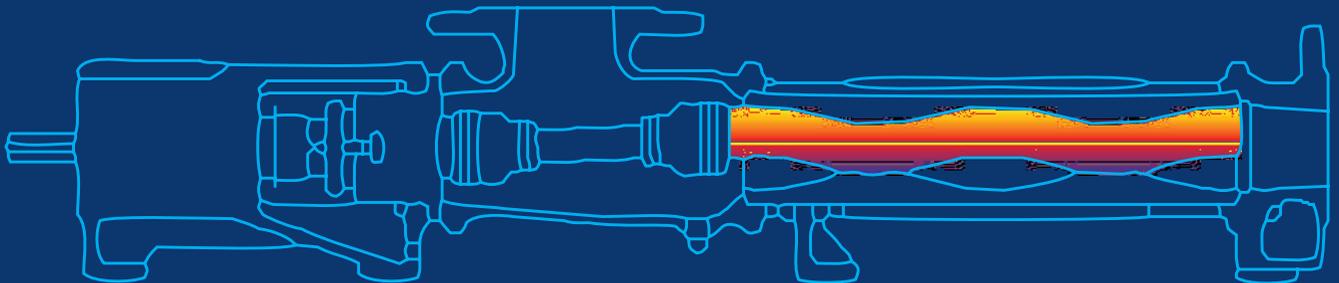
**FLOSYS PUMPS PVT LTD**

MANUFACTURERS OF INDUSTRIAL PUMPS



## About us

Flosys Pumps, an ISO 9001 : 2015 Certified company situated in industrial city of Coimbatore in Southern part of India. We are one among the leaders in manufacturing of progressive Cavity Pumps exclusively for paper industry and also other applications. We are backed by well established infrastructural base and installation of technologically advanced manufacturing and testing machineries. Our commitment to quality has earned us an enviable reputation worldwide. Overwhelmed with dedication, the experienced team is the foremost strength of our organisation. All their dedication and never ending efforts have enabled us to carve a niche in the global market.



Flosys Progressive Cavity Pumps range from small dosing pumps, close coupled/ block, equal wall stator pumps, vertical (stator immersed) pumps. to open throat pumps. Flosys Pumps offers a full range of pumps for a wide range of applications, Which assures the most economical and reliable pumping solution for the individual pumping applications.



## Basic Design & Pumping Principle

The Pumping element Comprises of a precision machined single external helical metallic rotor and a double internal helix elastomer stator. Due to special profile of rotor and stator, a sealing line is formed along the axis of the rotor , which is maintained at static or dynamic condition.

As the rotor turns with in the stator, these cavities progress from suction to discharge end of the pump carrying the fluid.

## Materials of Construction

Wettable Housing components : Cast iron, Stainless steel

Rotor : Alloy steel, Tool steel , Stainless steel with HCP

Stator : Natural, Nitrile, Neoprene, EPDM, Hypalon, Butyl, Silicon, Viton, etc.

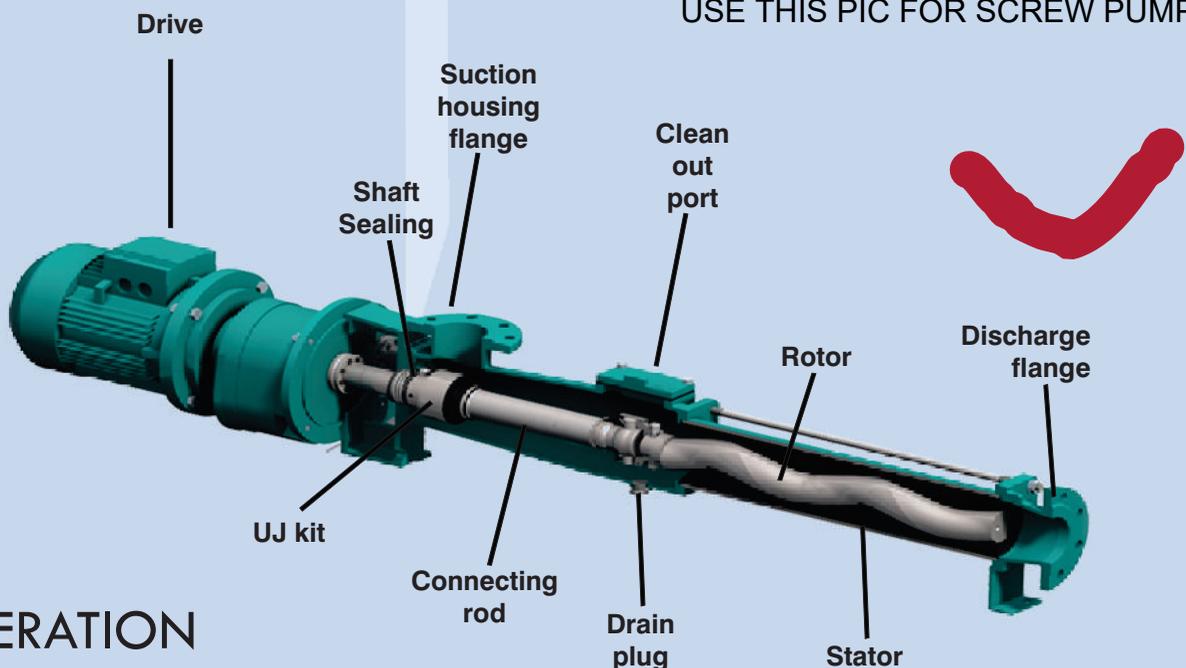
Rotating parts : Alloy steel, Stainless steel

Seals : Sealing arrangement by soft Gland Packing or Mechanical Seal.

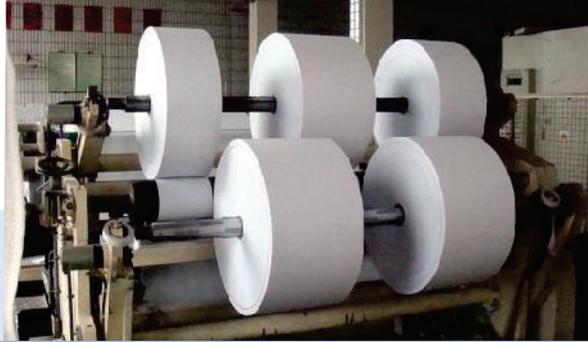
## Care For Your Pumps

At Flosys pumps we understand that pumps work best when they are cared for, both in terms of service and spares. That's the reason why we ensure that you have the best of both superlative service and easily available spares. Genuine spares from Flosys - because the best way to show you care by making things easy for the customer.

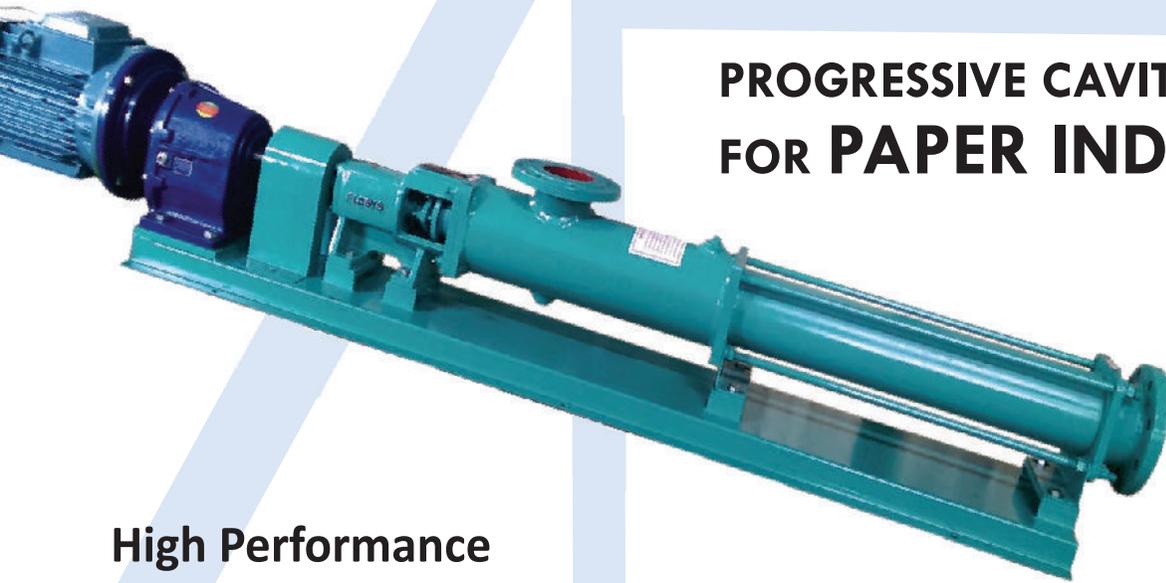
USE THIS PIC FOR SCREW PUMP



OPERATION



## PROGRESSIVE CAVITY PUMPS FOR PAPER INDUSTRY



**High Performance  
Pumping,  
Low Energy  
Consumption.**

### Technical Specification

|             |                                    |
|-------------|------------------------------------|
| Flow        | : upto 500 m <sup>3</sup> /hr      |
| Pressure    | : 6,12,24,36,48 kg/cm <sup>2</sup> |
| Temperature | : upto 200 deg C                   |
| Stator      | : NCP - NBR, EPDM, Silicon, Viton  |

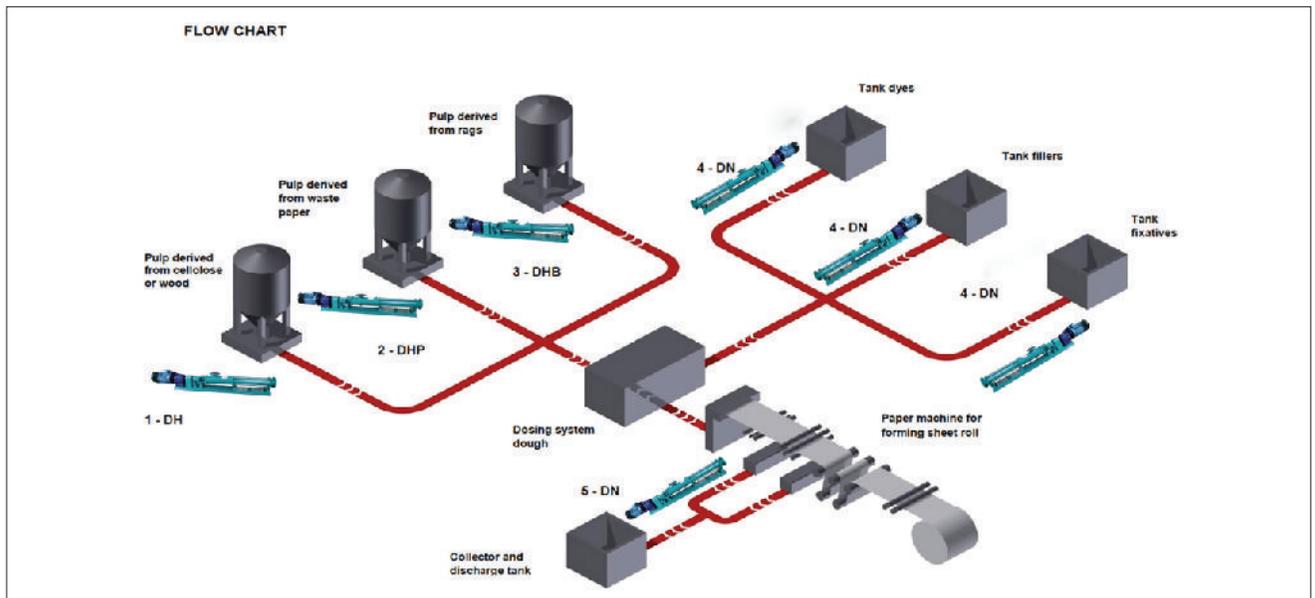
### Salient features

- Easy drainage slope
- Low pulsation, continuous flow
- Convenient inspection windows
- Optional shaft sleeve
- Carden type universal joint
- Improved rotor and stator geometry
- Reversible
- Taper roller bearing
- Multiple combinations of rotor and Stator materials
- Sealing housing Standardized to ISO 3069 sealing chamber Type

### Advantages of pumps

- Increased service life
- Stability in pressure & flow due to longer sealing Lines
- Improved overall efficiency
- Higher capacity with lower rotor dia & eccentricity
- Lengthy geometry
- Reduced vibration, Turbulence, Shear rates & pulsation
- Lower sliding velocity
- Easily removable split packing gland
- Smaller shaft seal diameter reduces face velocity and Friction rate
- Easily accessible shaft seal area results from a smaller drive flange diameter and easily removable split packing gland
- Shaft with wear- resistant coating in the stuffing box area

# YOUR PARTNER IN PULP AND PAPER MANUFACTURING



## 1. De-inking Chemical Application

Chemicals additives used for de-inking lines, such as hydrogen peroxide, sodium hydroxide, sodium silicate, sodium hydrosulphite, sulphuric acid, soap, and coagulants are corrosive, Flosys Chemskid combines dosing accuracy and operational safety: pumps and accessories are carefully selected and assembled in a customised turnkey solution.

## 2. Stock Preparation

Flosys progressive cavity pumps with automated, controlled variable flow rates ensure the continuous feeding of the paper machine with the diluted paper pulp solution for the utmost process efficiency.

## 3. Wet End Chemical Preparation

Product and process additives, such as fillers, cationic starch, sizing agents, dyes, PAC, OBC, fixing agents, defoamers, retention aids, PCC and AKD are metered and added to the stock. The Flosys range of positive displacement pumps enables you to select the pump or systems best suited to the type of additives, installation and safety requirements.

## 4. Starch Preparation

Cationic or anionic starch is cooked, metered and continuously fed. The transfer to the head box or size press requires a solution that is able to perform at both high and ambient temperatures. Flosys pumps can handle fluids at temperatures over 95 C, thanks to proven elastomer knowledge and solution expertise.

## 5. Coating Colour Kitchen

Pigment slurries, latexes, starch, binders (PVA, CMC), biocides and other additives are metered from storage tanks and containers for dispersion, mixing and cooking. They are handled in batches or in a continuous process and are a key step in the preparation of the coating colour before the final station. Flosys progressive cavity pumps can cope with these abrasive fluids while delivering high dosing accuracy and pulsation-free pumping.

## 6. PCC/GCC Systems

Mineral pigment dispersing and mixing units rely on Flosys progressive cavity pumps. Preparing pigment slurries from calcium carbonate or clay requires heavy duty pumps capable of withstanding abrasive fluids and delivering unbeatable metering repeatability.

www.flosyspumps.com



**FLOSYS PUMPS PVT LTD**

An ISO 9001:2015 Certified Company



No.119, Sidco Industrial Estate, Malumichampatti Post, Coimbatore - 641 050, Tamilnadu, India

Tel : +91 422 2655030, 2655130, Fax : +91 422 2655230, Email : info@flosys.in, sales@flosys.in, Web : www.flosyspumps.com