

**Roto**<sup>®</sup>  
**Ultra**



**45+**  
years of  
*...moving fluids positively*



Efficient pumping solutions  
for paper industry

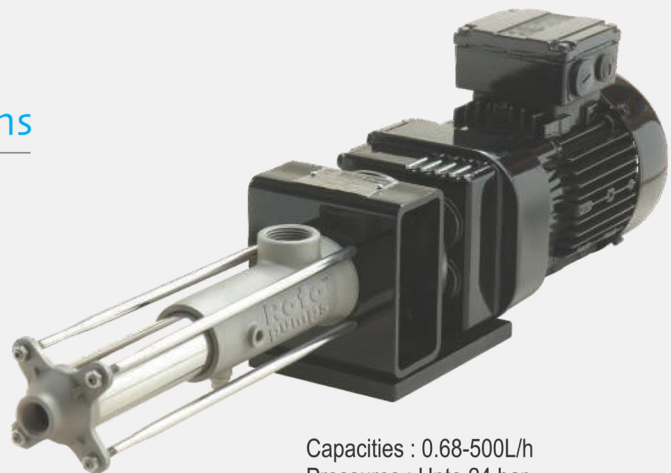
## Roto Pumps in Pulp & Paper Industry

Roto Pumps has a vintage of over 45 years in providing fluid handling solution to a spectrum of Industries. These pumps can handle wide variety of fluids ranging from clean and clear liquids to abrasive, corrosive, viscous and solid laden media. In paper industry these pumps are used in all major stages including Pulp Making, Pulp preparation and Kitchen Coating. Some of the few design features include:

- Flow proportionate to Speed - Can be used for Dosing and metering applications
- Self Priming - Excellent Suction Lift Capability and can operate under vacuum
- Non-Clogging - Can handle solids in suspension
- Low Internal Velocity - Can handle shear sensitive media
- Positive Displacement - Flow independent of Head
- Will not Vapor Lock - Can handle air, liquid and combination together



### RJ series pump for precise metering applications



Capacities : 0.68-500L/h  
Pressures : Upto 24 bar

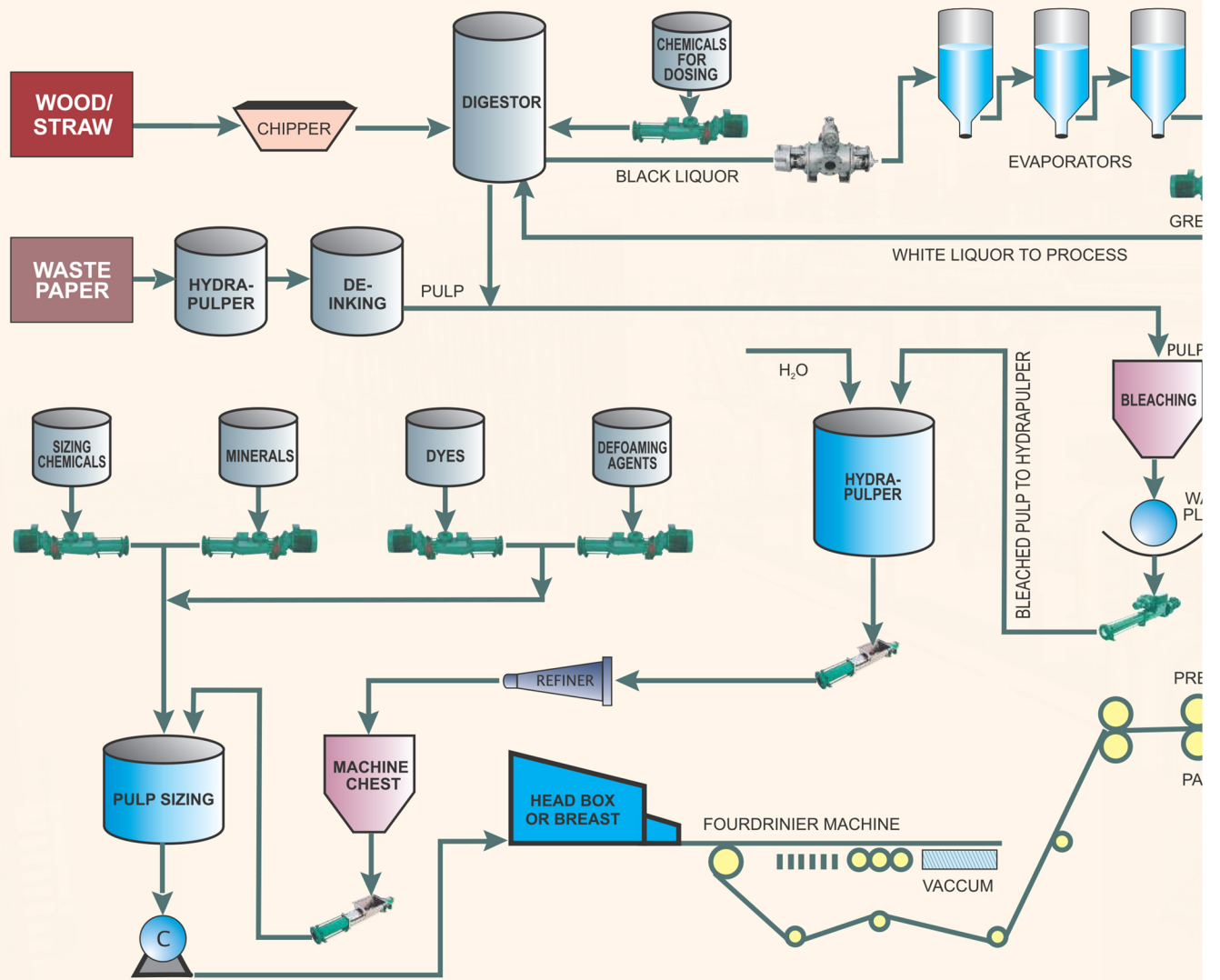
### RJ series of dosing pumps

Roto RJ series pumps are developed for low flow applications that demand high accuracies and repeatability. These pumps can handle wide variety of fluids ranging from clean and clear liquids to abrasive, corrosive, viscous and solid laden media.

### Advantages

- High dosing accuracies - fluctuation  $\pm 1\%$ .
- Smooth and non - pulsating flow - no need of pulsation dampners.
- Low sheer and linear flow - can handle sheer sensitive media.
- Single rotating element - no valves or gears required.

## FLOW DIAGRAM OF A TYPICAL



## APPLICATIONS :

### Pulp Making Process

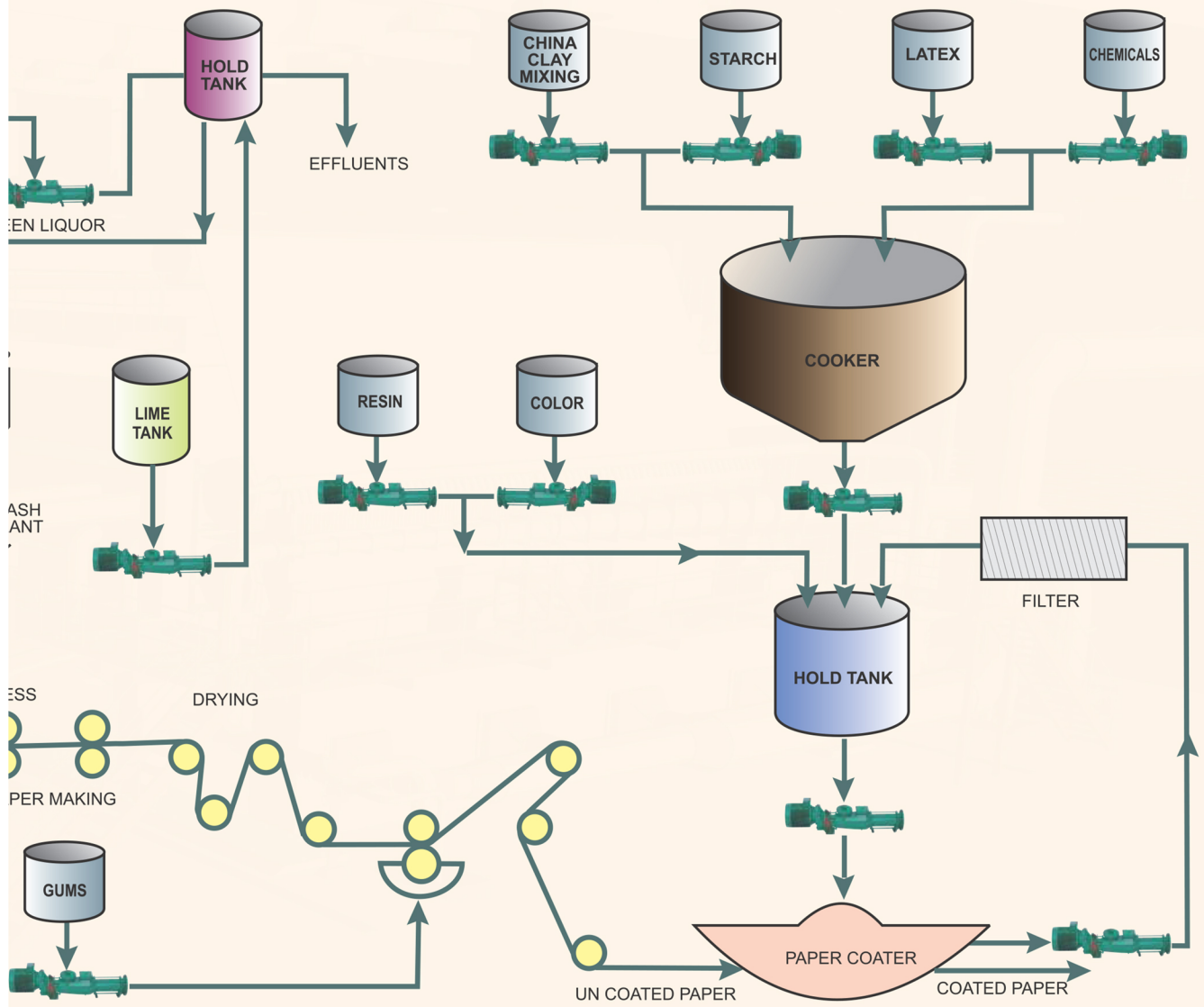
- Black Liquor
- Green Liquor
- Sodium Hydroxide
- Sodium Sulphide
- Sodium Carbonate
- Decolouring Agent
- High Density Pulp

### Pulp Preparation Process

- Sizing Chemicals
- Rosin
- Neutral Sizing
- Calcium Carbonate
- Alkyl Ketens Dimmer( AKD)
- Alkenyl Succinic Anhydride (ASA)
- Mineral Filler
- Talcum
- Kaolin
- Calcium Carbonate
- Carbon Dioxide
- Low Density Pulp
- Pigment
- Colour
- Optics
- Defoamers
- Retainers
- Paper
- Fiber



# CAL PULP AND PAPER INDUSTRY



ents  
rs  
al Brightener  
aming Agents  
ning Aids  
r Softener  
Dispenser

## Paper Making Process

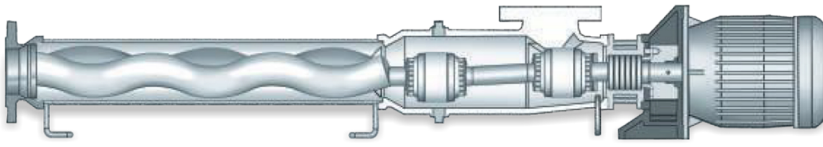
- Starch
- Polyvinyl Alcohol
- Wax
- Latex

## Paper Coating Process

- Starch
- China Clay
- Resin
- Latex
- Chemicals
- Colour
- Kitchen Coating Slurry



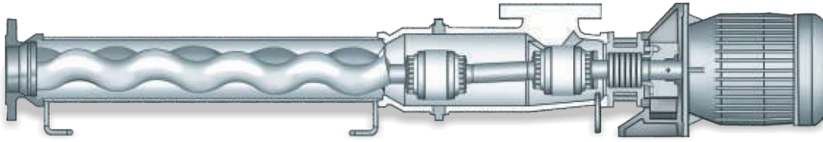
**Extended Pitch Geometry**



Capacities 420 M<sup>3</sup>/hr

Pressures 6 Bar

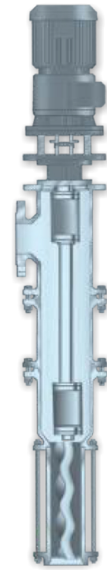
**Standard Pitch Geometry**



Capacities 250 M<sup>3</sup>/hr

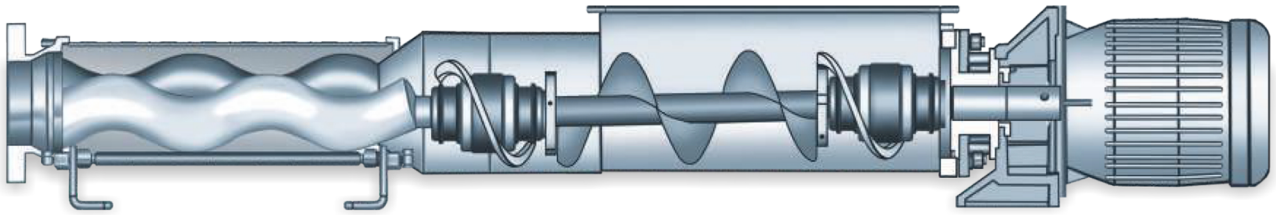
Pressures 48 Bar

**Submerged Vertical**



Capacities 420 M<sup>3</sup>/hr  
Pressures 12 Bar

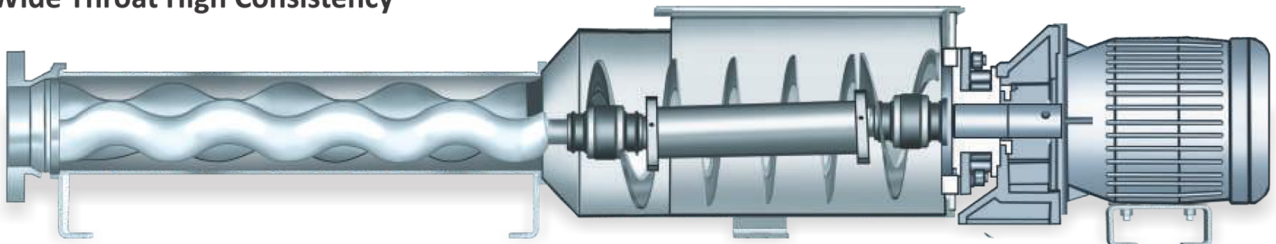
**Wide Throat Medium Consistency**



Capacities 150 M<sup>3</sup>/hr

Pressures 36 Bar

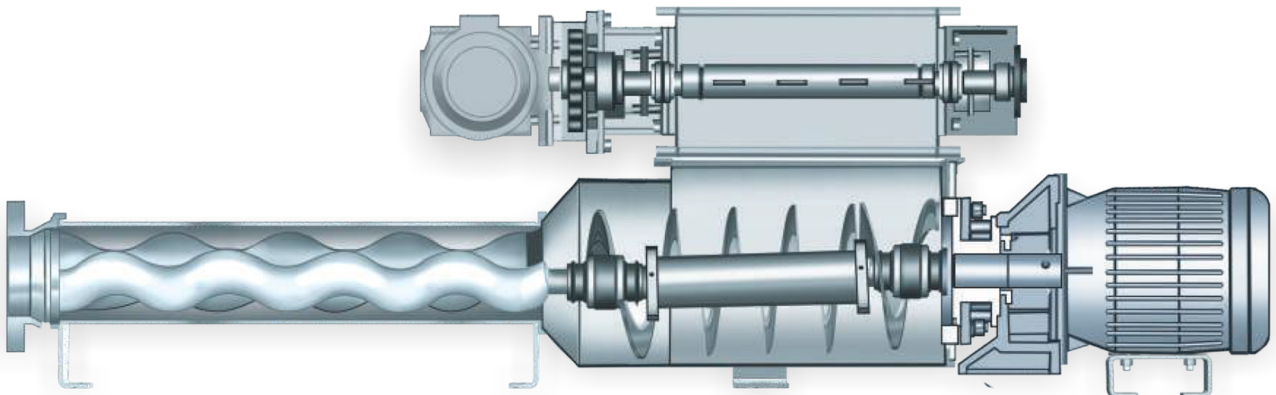
**Wide Throat High Consistency**



Capacities 100 M<sup>3</sup>/hr

Pressures 36 Bar

**Wide Throat High Consistency with Bridge Breaker**



Capacities 100 M<sup>3</sup>/hr

Pressures 36 Bar

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Manchester Office & Warehouse



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