



Efficient pumping solutions
for paper industry

Roto Pumps in Pulp & Paper Industry

Roto Pumps has a vintage of over 55 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

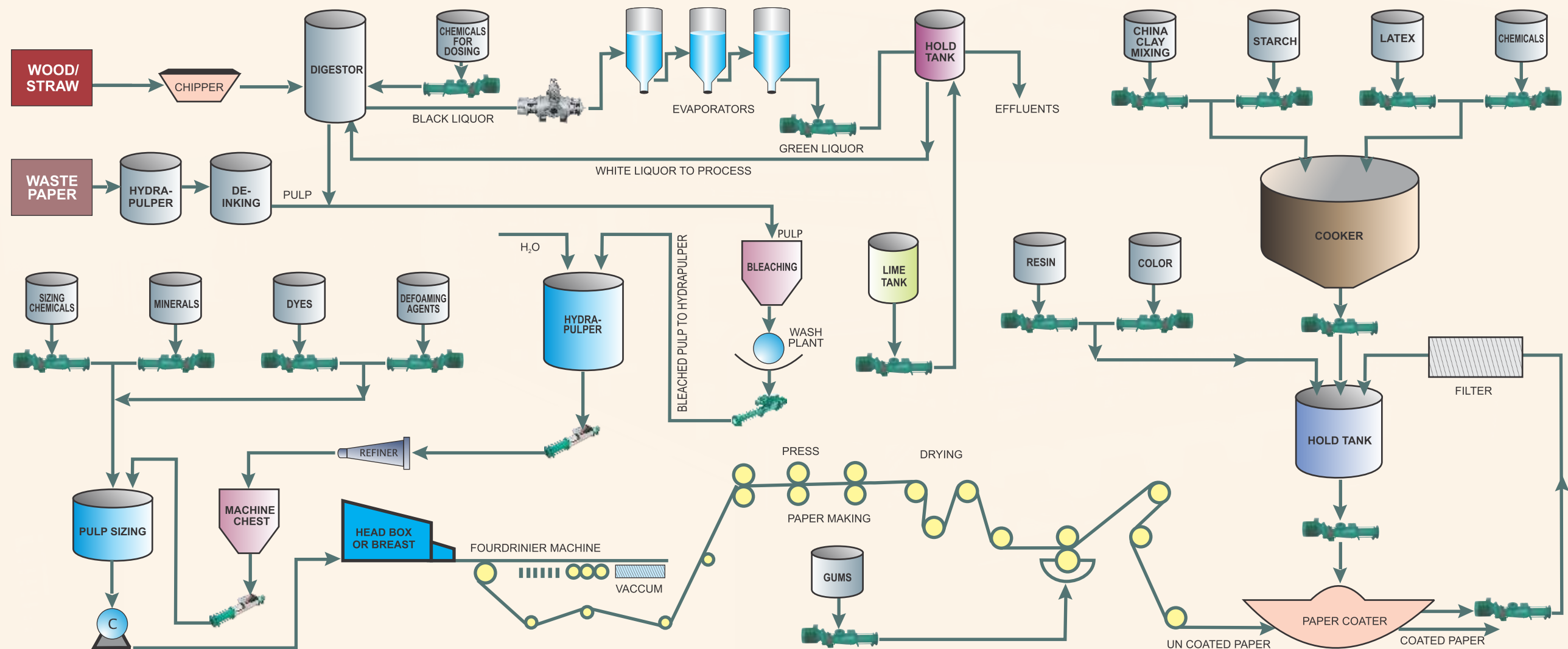
RJ series of dosing pumps

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 PULP AND PAPER INDUSTRY



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
- Pigments
- Colours
- Optical Brightener
- Defoaming Agents
- Retaining Aids
- Paper Softener
- Fiber Dispenser

Paper Making Process

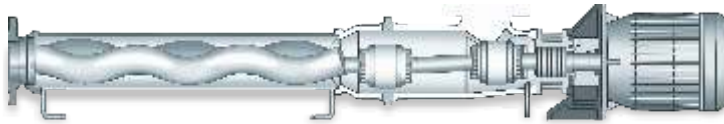
- Starch
- Polyvinyl Alcohol
- Wax
- Latex

– Paper Coating Process

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



Extended Pitch Geometry



Capacities 420 M³/hr

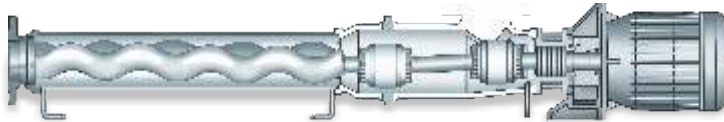
Pressures 6 Bar

Submerged Vertical



Capacities 420 M³/hr
Pressures 12 Bar

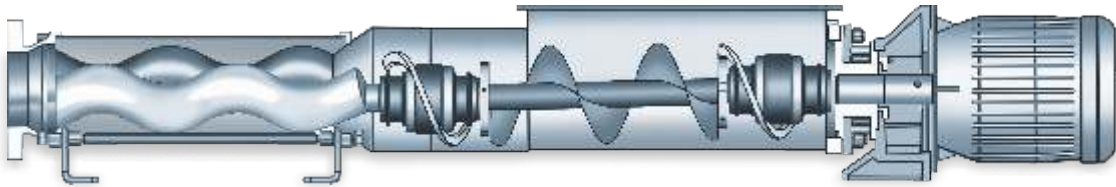
Standard Pitch Geometry



Capacities 250 M³/hr

Pressures 48 Bar

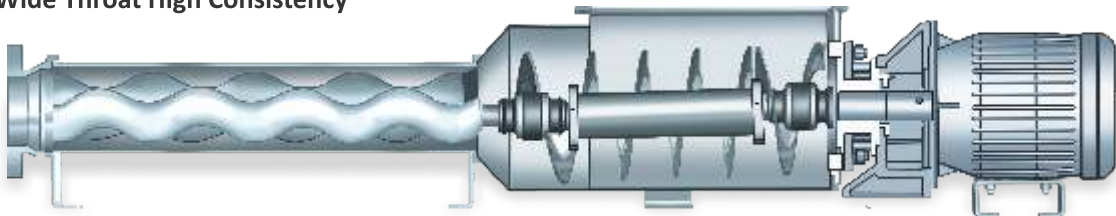
Wide Throat Medium Consistency



Capacities 150 M³/hr

Pressures 36 Bar

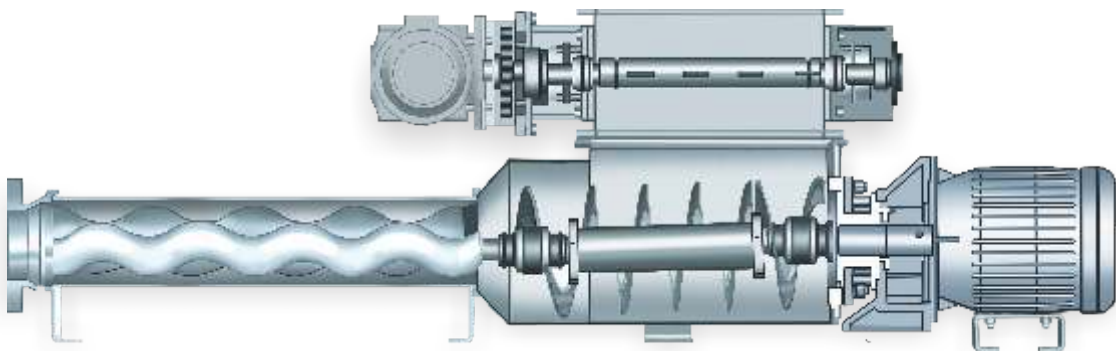
Wide Throat High Consistency



Capacities 100 M³/hr

Pressures 36 Bar

Wide Throat High Consistency with Bridge Breaker



Capacities 100 M³/hr

Pressures 36 Bar



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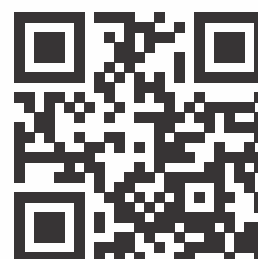
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