









ROTO PUMPS LTD.

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Infrastructure

over the years been able to develop efficient manufacturing processes both in the field of metal cutting and rubber

The present manufacturing infrastructure comprises of a facility spread over 20,000 sq.mt and deploys all modern machine tools. It has created multiple assembly sections in terms of pump sizes to meet the growing demand for its

The testing infrastructure comprises of both water and oil test bed facilities. The testing facility is equipped to comply with VDMA and API 676 standards. The facility can test pumps with capacity upto 1000 m³/hr and has power available upto 500KW.

Marketing & Distribution Network

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Quality Certifications and Registrations

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Research and Development

Roto enjoys the legacy of being amongst the leading Progressive Cavity Pump manufacturers and processes deep & sound designing capabilities, which has been developed over the last 4 decades. R & D activity within Roto has lead to the launch of numerous new products with some of the most distinguished features, high degree of reliability & immaculate product performance.

Roto has a battery of licenses of 3D designing software such as solid works and also deploys advances software for flow analysis, mechanical strength and cost optimisation.



We understand your challenges in Waste Water Treatment plants





> Lower maintenance cost

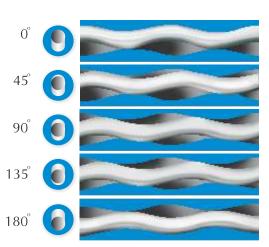


Progressive cavity pumping principle

The pumping element comprises of a precision machined single external helix 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 within the stator, these cavities progress from suction to

discharge end of the pump carrying the fluid.



Cavity movement through 180° of Rotor rotation

Distinctive design features & benefits

POSITIVE DISPLACEMENT Head developed is independent of speed whereas capacity is proportionate to speed. Delivers

Uniform, metered and Non Pulsating Flow.

SELF-PRIMING Inherently self-priming, can work on snore and does not require foot valve. NON-CLOGGING Handles solids in suspension or mixture containing high percentage of solids. LOW NPSH REQUIREMENT : Suction lift capability up to 9.5 mwc and effective even in high vacuum conditions.

LOW INTERNAL VELOCITY Minimum degradation of shear sensitive media.

REVERSIBLE Provides flexibility in operation.

Treating Wastewater...a vital step needed for a sustainable aquatic environment as climate change & increasing population will demand better conservation of the environment through recycling, conservation, regeneration & restoration of water.

Roto has over four decades of process expertise to offer reliable solutions for waste water treatment in sewage & industrial effluents. Roto progessive cavity pumps are, indeed, a cost-effective alternative to expensive, less reliable & maintenance prone piston pumps & screw conveyors for transferring dewatered sludge in waste water applications.



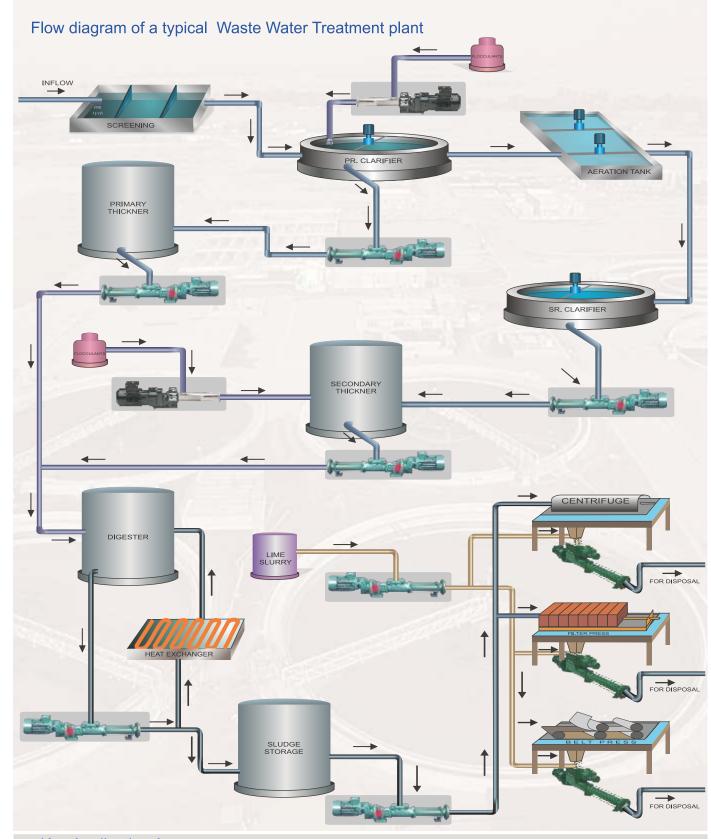
RJ series of metering pumps

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. The repeatability accuracy has less than 1% fluctuation. Available in 6 capacities and 3 pressure ranges, flow rates from 0.003 – 2.2 USgpm (0.68 – 500 l/h) at 87, 174 & 348 psi (6, 12 and 24 bar) differential pressure.

Advantages

- Capacity is directly proportionate to the speed.
- Head developed, is independent of speed.
- Inherently self-priming.
- Non-clogging.
- Single rotating element. No valves or gears required.
- Low NPSH (R)
- Low shear and linear flow.

- Reversible.
- Smooth & non-pulsating flow.
- High suction lift capability up to 9.5 mwc.
- Only change of pumping elements is required to obtain different capacities.
- Simple to operate.
- Low operating costs.



| Key A | Application Areas | | | | | | | | | | |
|------------------------|-------------------|---------------------------|----------------------------|------------------|-------------|-------------|--|--|--|--|--|
| Roto Pumps | Raw Sewage | Primary/ Secondary Sludge | Digested/ Activated Sludge | Thickened Sludge | Flocculants | Cake Sludge | | | | | |
| × | | | | | √ | | | | | | |
| Reserved to the second | ✓ | ✓ | ✓ | √ | | | | | | | |
| - | | | | | | √ | | | | | |

Roto Extra Value Advantage

Improved Pump Housing

- A sloped housing design reduces entry losses
- Facilitates easy drainage
- Its flexible housing orientation allows the suction port to be rotated in steps of 90° to suit any installation

Optimised Rotor Stator Geometry—

- Improved Rotor Stator geometry minimises wear due to lower rubbing velocities as compared to conventional geometry, particularly useful in abrasive applications
- Lower starting torque and effective sealing line (Zero Leakage) improves volumetric efficiency
- Resulting in reduced power consumption and extended service life



Tapered Entry Stator

- Facilitates easier entry for fluids
- Improves suction capability



 Motor lantern designed to accommodate various construction of drives reduces the overall length and leads to ease of maintenance



stuffing box enables easier maintenance of Gland Packing or Mechanical seals, without the need to dismantle the bearing housing.

Cardan Universal Joint ———

- The Cardan type universal joint used in this pump is acknowledged to be far superior to the conventional gear joint, or single pin & bush joint which is subjected to extreme concentrated loads, resulting in high wear rates
- The Cardan type of UJ joint employs two sets of perpendicular pins, each providing freedom of angular movement, which facilitates smoother transmission of angular loads
- The Cardan type UJ joint is also designed to withstand high axial forces which are dominant in Progressive Cavity Pumps

Roto at work In sewage industry



RM681 Pump in Waste Water Treatment Plant at Auckland (New Zealand)



RD531 Pumps in Polymer Dosing application at Tasmania (Australia)



RM702 for Bio-mass sludge at Sydney (Australia)



Battery of RL Series Pumps for Tannery Effluent



Battery of RD512 Pumps for Oil Water Seperator application at Australia





KM584 Pump with Bridge breaker feeding incinerator at Reliance, Hazira (India)



RM621 Pump in Waste Water Treatment Plant at Malaysia

Roto Pumps pumping solutions for waste water treatment industry



| Size | D41 | D43 | D45 | D47 | D49 | D51 | D53 | D55 | |
|----------|------|-----|-----|-----|------|------|-----|------|--|
| Capacity | | | | | | | | | |
| m3/hr | 0.11 | 0.3 | 0.6 | 1.6 | 3.5 | 6.5 | 9.5 | 16.5 | |
| GPM | 0.4 | 1.3 | 2.6 | 7 | 15.4 | 28.6 | 42 | 73 | |
| Pressure | | | | | | | | | |
| Bar | 24 | 48 | 24 | 24 | 24 | 12 | 12 | 6 | |
| PSI | 341 | 682 | 341 | 341 | 341 | 171 | 171 | 85 | |

Small Capacity 'RD' Series Pumps

Viscosities: Upto 30,000 cst Temp.: Upto 150° C / 302° F

Solid Handling Capability: Upto 7%

These small capacity Heavy duty pumps are designed for continuous or intermittent dosing or transfer duties. These oumps are available in Close-Coupled & Bare shaft Configuration. 6 & 8 stage pumps are also available in select



| ſ | Size | MEO | M52 | 1454 | MEG | MEO | Meo | Mea | Mea | Mee | MCO | 1470 | 1472 |
|---|----------|------|------|-------|-------|-----|-----|-----|-------|-------|-------|-------|---------|
| - | Size | WISO | WIJZ | 10104 | IVIOO | | | | 10104 | IVIOO | IVIOO | IVI7U | IVI / Z |
| | Capacity | | | | | | | | | | | | |
| | m3/hr | 4 | 8 | 12 | 20 | 27 | 38 | 58 | 78 | 95 | 120 | 150 | 200 |
| | GPM | 17.6 | 35.2 | 53 | 88 | 120 | 168 | 256 | 344 | 420 | 530 | 660 | 880 |
| | Pressure | | | | | | | | | | | | |
| | Bar | 48 | 48 | 36 | 24 | 24 | 24 | 24 | 18 | 12 | 6 | 12 | 6 |
| | PSI | 682 | 682 | 511 | 341 | 341 | 341 | 341 | 256 | 171 | 85 | 171 | 85 |

Medium to Large Capacity 'RM' Series Pumps Viscosities: Upto 30,000 cst Temp.: Upto 150° C / 302° F Solid Handling Capability: Upto 7% These Heavy Duty pumps are designed for

ontinuous duties and are suitable to perform efficiently even for the most difficult fluid handling applications. These Pumps are available in Close Coupled & Bareshaft Configuration.



| Size | L54 | L57 | L59 | L61 | L63 | L67 | L71 | L75 | |
|----------|------|-----|-----|-----|-----|-----|-----|------|--|
| | | | | | | | | | |
| Capacity | | | | | | | | | |
| m3/hr | 14.2 | 23 | 42 | 54 | 67 | 116 | 195 | 345 | |
| GPM | 63 | 102 | 185 | 238 | 295 | 511 | 860 | 1520 | |
| Pressure | | | | | | | | | |
| Bar | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| PSI | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | |

Extra Large Capacity 'RL' Series Pumps

Viscosities: Upto 15,000 cst Temp.: Upto 150° C / 302° F Solid Handling Capability: Upto 7%

These Heavy Duty cost effective pumps use the extended Rotor Stator Geometry and are ideal for the Sewage & Effluent treatment applications. These Pumps are available in Close Coupled & Bareshaft Configuration.



| Size | W54 | W56 | W58 | W60 | W62 | W64 | W66 | W68 | W70 | Ì |
|----------|-----|-----|------|------|-------|-------|-------|-------|-------|---|
| Capacity | | | | | | | | | | l |
| m3/hr | 5 | 8 | 11 | 19 | 33 | 42 | 48 | 72 | 85 | |
| GPM | 22 | 34 | 48.8 | 83.7 | 144.5 | 183.5 | 211.2 | 315.5 | 373.6 | |
| Pressure | | | | | | | | | | |
| Bar | 36 | 24 | 24 | 24 | 24 | 18 | 12 | 6 | 12 | |
| PSI | 511 | 341 | 341 | 341 | 341 | 256 | 171 | 85 | 171 | l |

Widethroat 'WM' Series Pumps

Viscosities: Upto 125,000 cst Temp.: Upto 150° C / 302° F Solid Handling Capability: Upto 12%

Widethroat type inlet allows gravity flow of highly viscous (Plastico-viscous) material on to Augur-on-Coupling Rod which pushes the substance to the pumping element. Available in Close Coupled & Bareshaft Configuration.



| Size | K54 | K56 | K58 | K60 | K62 | K64 | K66 | K68 | K70 |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Capacity | | | | | | | | | |
| m3/hr | 2.5 | 3 | 5 | 6 | 10 | 13 | 16 | 20 | 25 |
| GPM | 11 | 13 | 22 | 26 | 43 | 56 | 69 | 88 | 108 |
| Pressure | | | | | | | | | |
| Bar | 36 | 24 | 24 | 24 | 24 | 18 | 12 | 48 | 12 |
| PSI | 511 | 341 | 341 | 341 | 341 | 256 | 171 | 696 | 171 |
| | | | | | | | | | |

Widethroat with Bridgebreaker 'KM' Series Pumps

Viscosities: Upto 3,000,000 cst Temp.: Upto 150° C / 302° F Solid Handling Capability: Upto 40%

Widethroat pumps with side paddle (bridgebreaker) arrangement are designed for handling extremely difficult media with very high solid content and non-flowing

Submerged Vertical VM series Capacities upto 345 M³/hr (1520 GPM)

These vertical pumps are designed to operate with the pumping elements immersed in the product. These pumps are compact and space saving. They are custom designed and manufactured for varying column lengths to suite the sump depth.







NO BREAKDOWN DURING SEASON

NO LEAKAGES

LESS POWER CONSUMPTION

LOWER INVENTORY

COMPLETE SERVICE SUPPORT

•

AND MUCH MORE...









Roto Pumps in Sugar Industry

Roto Pumps has a vintage of over 40 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 sugar industry these pumps are used to handle liquid at various stages including dosing chemicals, Syrup, Magma, Massecuite and various grades of Molasses. 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

As compared to conventional reciprocating type of dosing pumps, Roto RJ Series Offer a unique advantage of smooth, laminar & pulsating free flow. This eliminates the need of accessories like pulsation dampeners, and does not affect the property of media. Introducing

RU series pump for precise metering applications

RJ series of dosing pumps

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Advantages

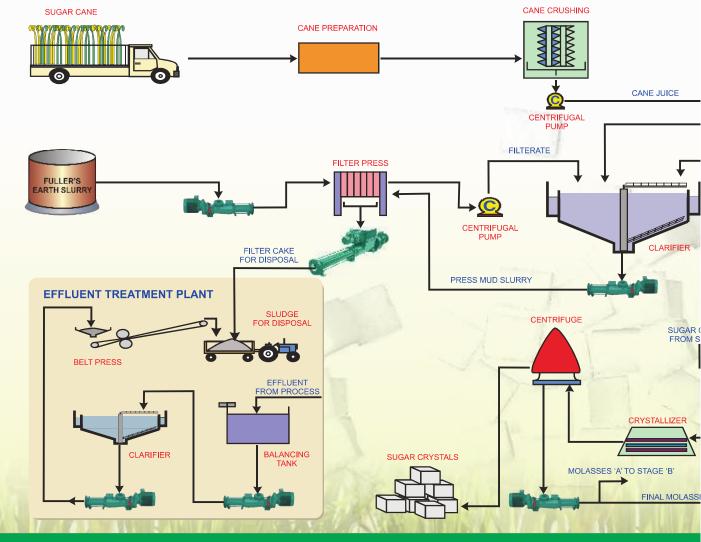
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- Low NPSH (R).

- Low shear and linear flow.
- Reversible.
- Smooth & non-pulsating flow.
- High suction lift capability up to 9.5 mwc.

Capacities: 0.003-2.2 gpm (0.68-500L/h) Pressures : 6.12 & 24 bar (87,174 & 348 PSI)

- Only change of pumping elements is required to obtain different capacities.
- Simple to operate.
- Low operating costs.

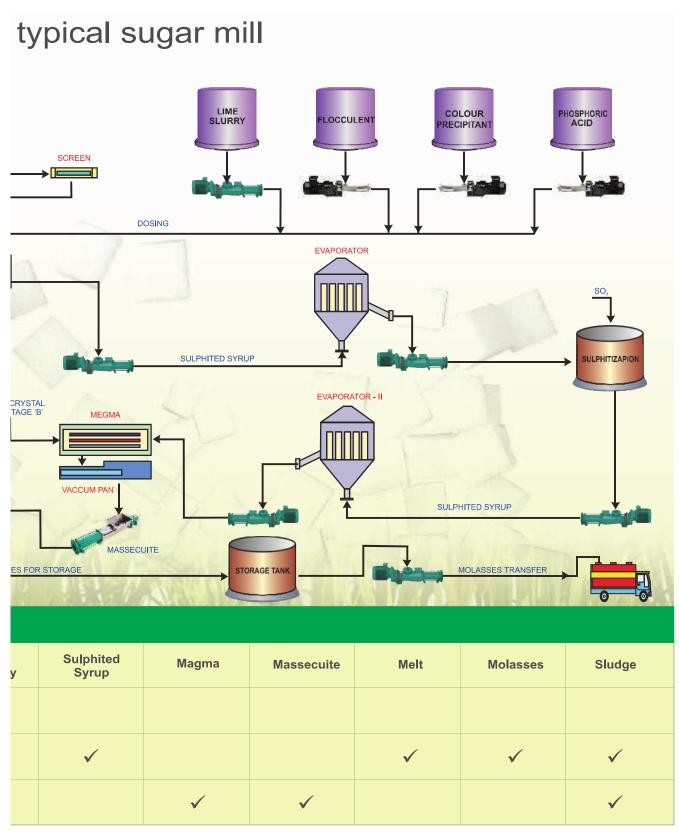
Flow diagram of a



Key Application Areas

| Roto Pumps | Roto Pumps Lime Slurry | | Colour Precipitant | Phosphoric Acid | Fuller's Earth Slurry | Press Mud Slurr |
|------------|---------------------------|---|-----------------------|--------------------|--------------------------|--------------------|
| | | ✓ | √ | ✓ | | |
| ST. ST. | ✓ | | | | ✓ | ✓ |
| San San | | | | | | |









Capacities 200 M³/hr (880 GPM) Pressures upto 48 Bar (682 Psi)



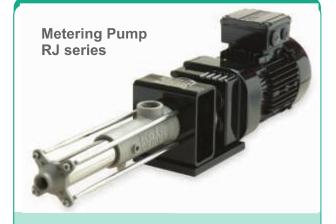
Capacities upto 345 M3/hr (1520 GPM) Pressures upto 6 Bar (85 Psi)



Capacities 25 M3/hr (108 GPM) Pressures upto 48 Bar (682 Psi)



Capacities upto 200 M3/hr (880 GPM) Pressures upto 36 Bar (511 Psi)



Capacities between 7.50–500 LPH (0.03–2.2 GPM)
Pressures upto 24Bar (341Psi)



Submerged Vertical VM series

Capacities upto 345 M3/hr (1520 GPM) Pressures upto 12 Bar (171 Psi)





rporate Office & Export Warehouse at Duty Free Zone, Noida



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Infrastructure

Roto has strong roots in manufacturing engineering & has over the years been able to develop efficient manufacturing processes both in the field of metal cutting and rubber processing.

The present manufacturing infrastructure comprises of a facility spread over 20,000 sg.mt and deploys all modern machine tools. It has created multiple assembly sections in terms of pump sizes to meet the growing demand for its products.

The testing infrastructure comprises of both water and oil test bed facilities. The testing facility is equipped to comply with VDMA and API 676 standard. The facility can test pumps with capacity upto 1000 m3/hr and has power available upto 500KW.

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Efficient pumping solutions for paper industry



Roto Pumps in Pulp & Paper Industry

Roto Pumps has a vintage of over 40 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
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RJ series pump
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Capacities: 0.003-2.2 gpm (0.68-500L/h) Pressures: 6.12 & 24 bar (87,174 & 348 PSI)

RJ series of dosing pumps

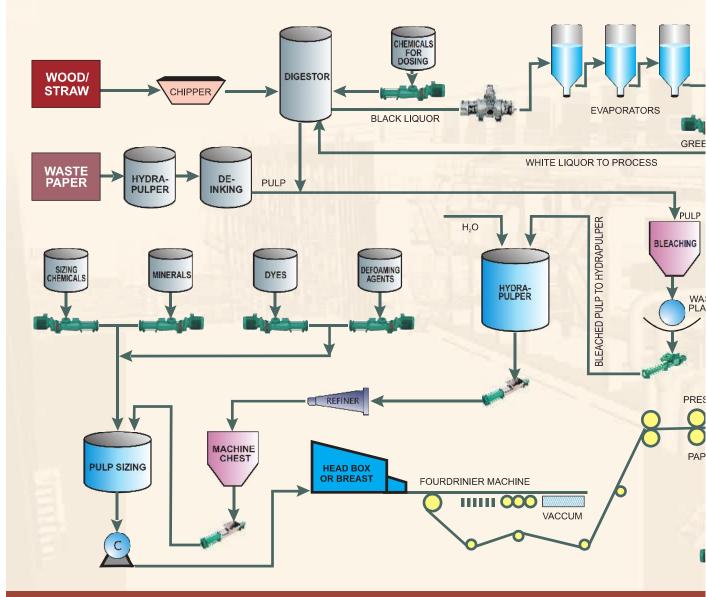
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- Reversible
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FLOW DIAGRAM OF A TYPIC



APPLICATIONS:

Pulp Making Process

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

Sizing Chemicals

- Rosin
- Neutral Sizing
- Calcium Carbonate
- Alkylketens Dimmer(AKD)
- Alkenylsuccinic Anhydride (ASA)

Pulp Preparation Process

- Mineral Filler Talcum
- Kaolin
- Calcium Carbonate
- Carbon Dioxide
- Low Density Pulp
- Defoai Retain

Pigme

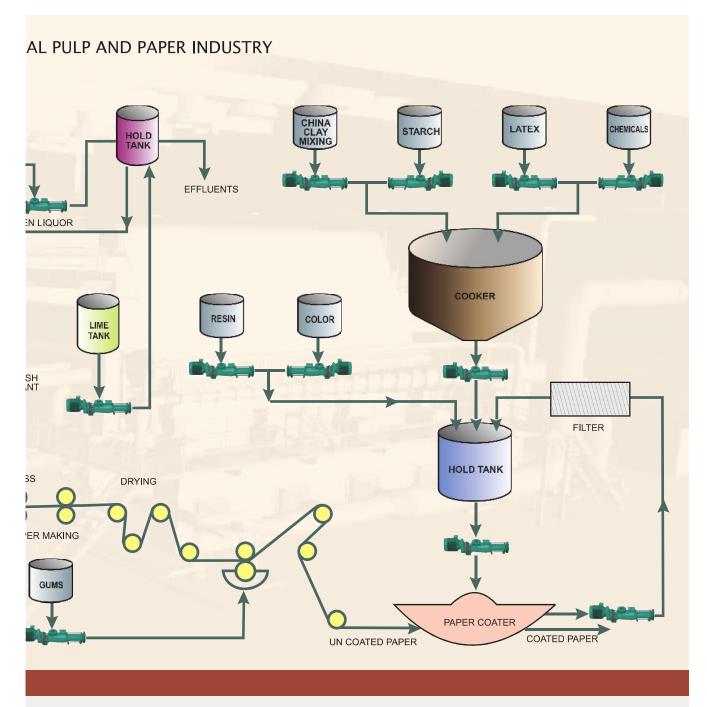
Colour

Optica

paper







nts

Brightener ming Agents ing Aids Softener Dispenser

Paper Making Process

- Starch
- Polyvinyl Alcohol
- Wax
- Latex

Paper Coating Process

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





Capacities 200 M³/hr (880 GPM) Pressures upto 48 Bar (682 Psi)



Capacities upto 345 M³/hr (1520 GPM) Pressures upto 6 Bar (85 Psi)





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VM series



Capacities between 7.50–500 LPH (0.03–2.2 GPM)
Pressures upto 24Bar (341Psi)



apacities upto 345 M³/h 520 GPM)

Submerged Vertical

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