

We understand your challenges in Waste Water Treatment plants



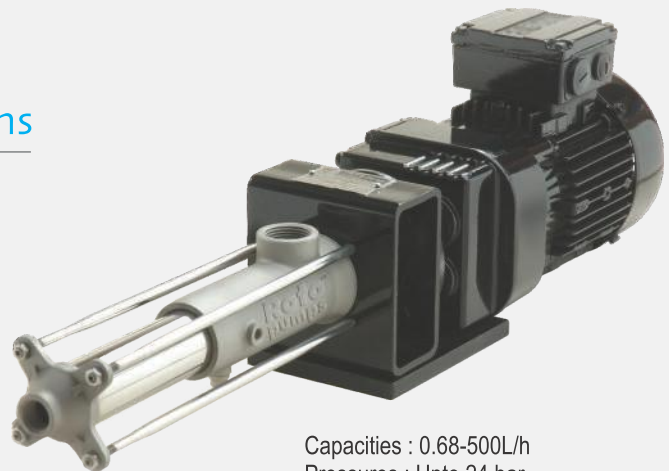
- > Robust and compact design
- > Proven two pin cardan joint
- > Lower maintenance cost

Roto Pumps in Waste Water Industry

Roto Pumps has a vintage of over 45 years in providing fluid handling solutions to 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 Waste Water Industry these pumps are used in all major stages including primary and secondary clarification process, sludge thickening process, digestion process, de-watering and sludge incineration. Some of the 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 sheer 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



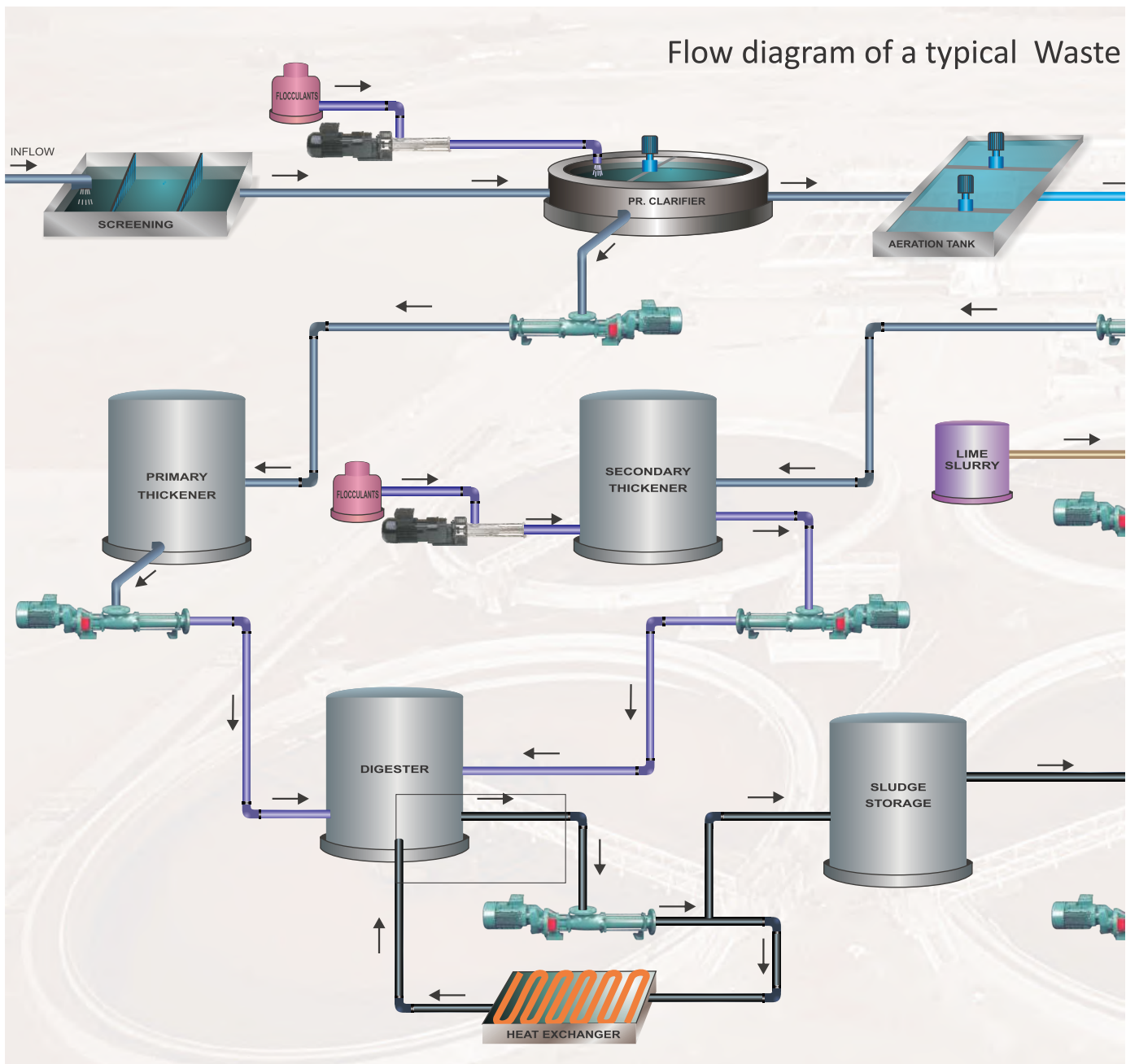
Capacities : 0.68-500L/h
Pressures : Upto 24 bar

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.



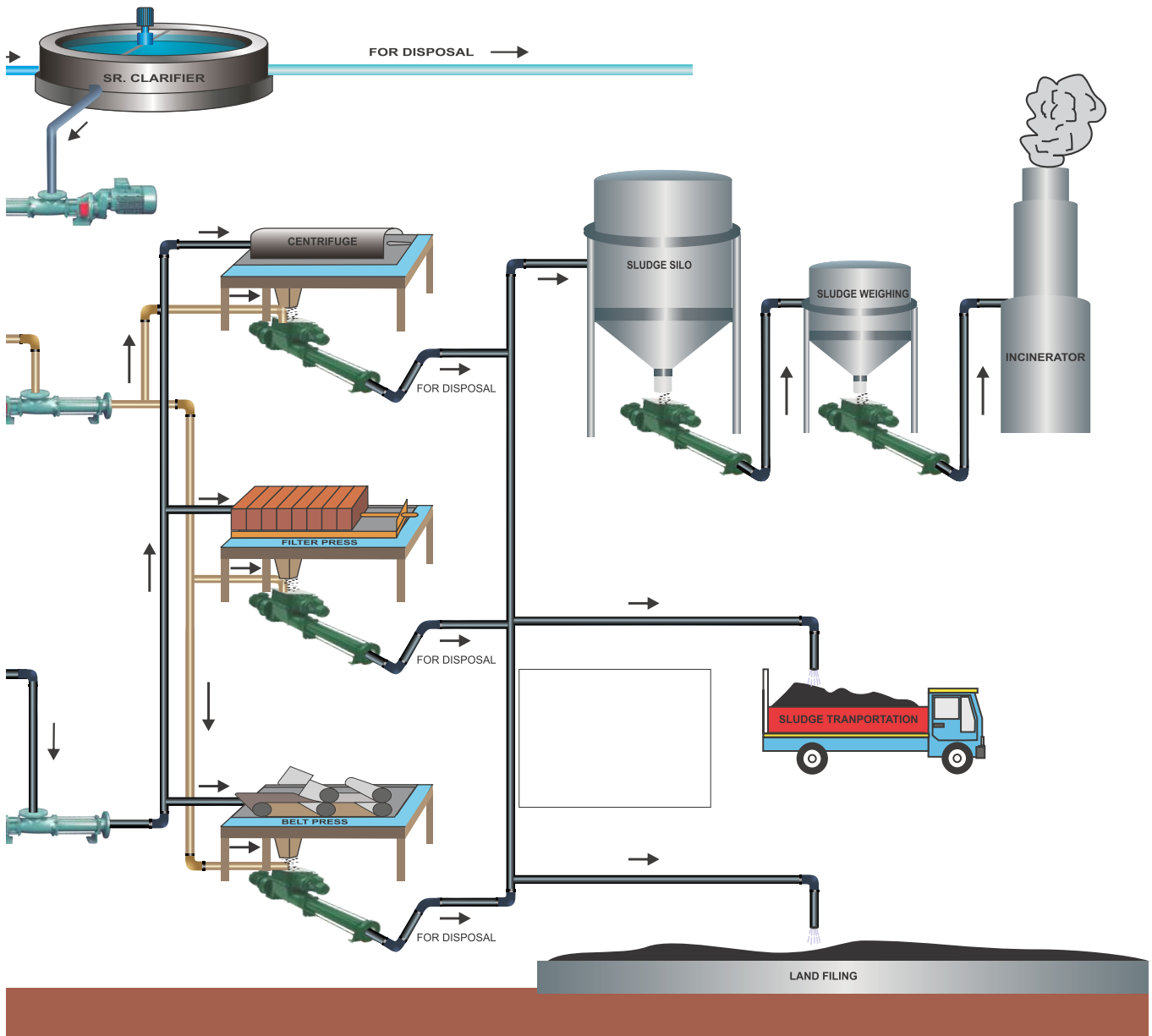
FLUIDS HANDLED

- | Sludge Making | | |
|------------------------------|--------------------|---------------------|
| • Primary Sludge | • Thickened Sludge | • Stabilized Sludge |
| • Secondary Sludge | • Digested Sludge | • Bio Sludge |
| • Secondary Activated Sludge | • Flotation Sludge | • Settled sludge |
| • Secondary Excess Sludge | • Returned Sludge | • Undigested Sludge |

Roto @ work in Waste Water Industry



Water Treatment plant



Dosing

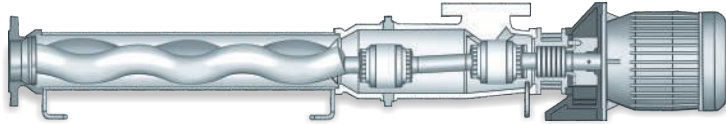
- Milk of Lime
- Concentrated Flocculent
- Polymer Solution
- Metallic Salts
- Polyelectrolyte
- Polyaluminum Chloride Solution
- Polyacrylamide Flocculent
- Alum Flocculent

Dewatering

- Dewatered Sludge
- Sludge Cake



Extended Pitch Geometry



Capacities 420 M³/hr

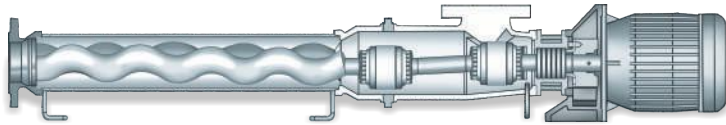
Pressures 6 Bar

Submerged Vertical



Capacities 420 M³/hr
Pressures 12 Bar

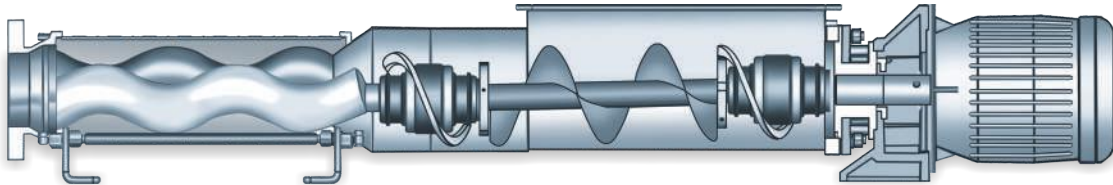
Standard Pitch Geometry



Capacities 250 M³/hr

Pressures 48 Bar

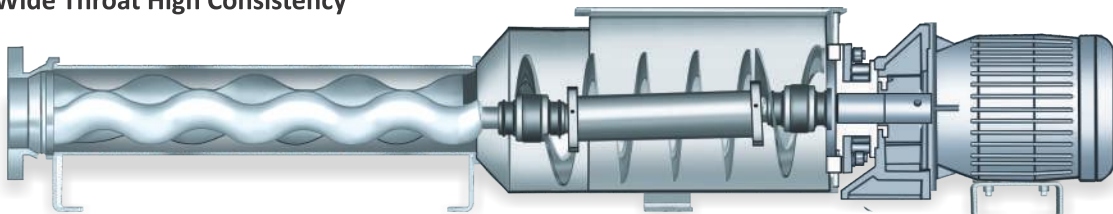
Wide Throat Medium Consistency



Capacities 150 M³/hr

Pressures 36 Bar

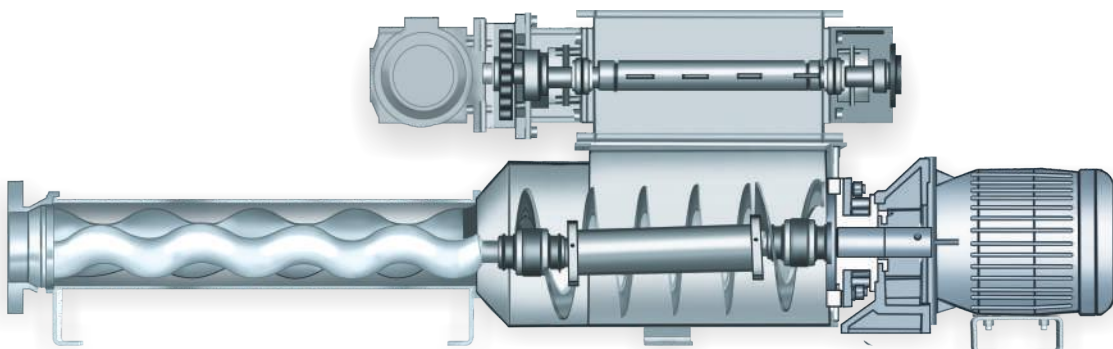
Wide Throat High Consistency



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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