

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 55 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

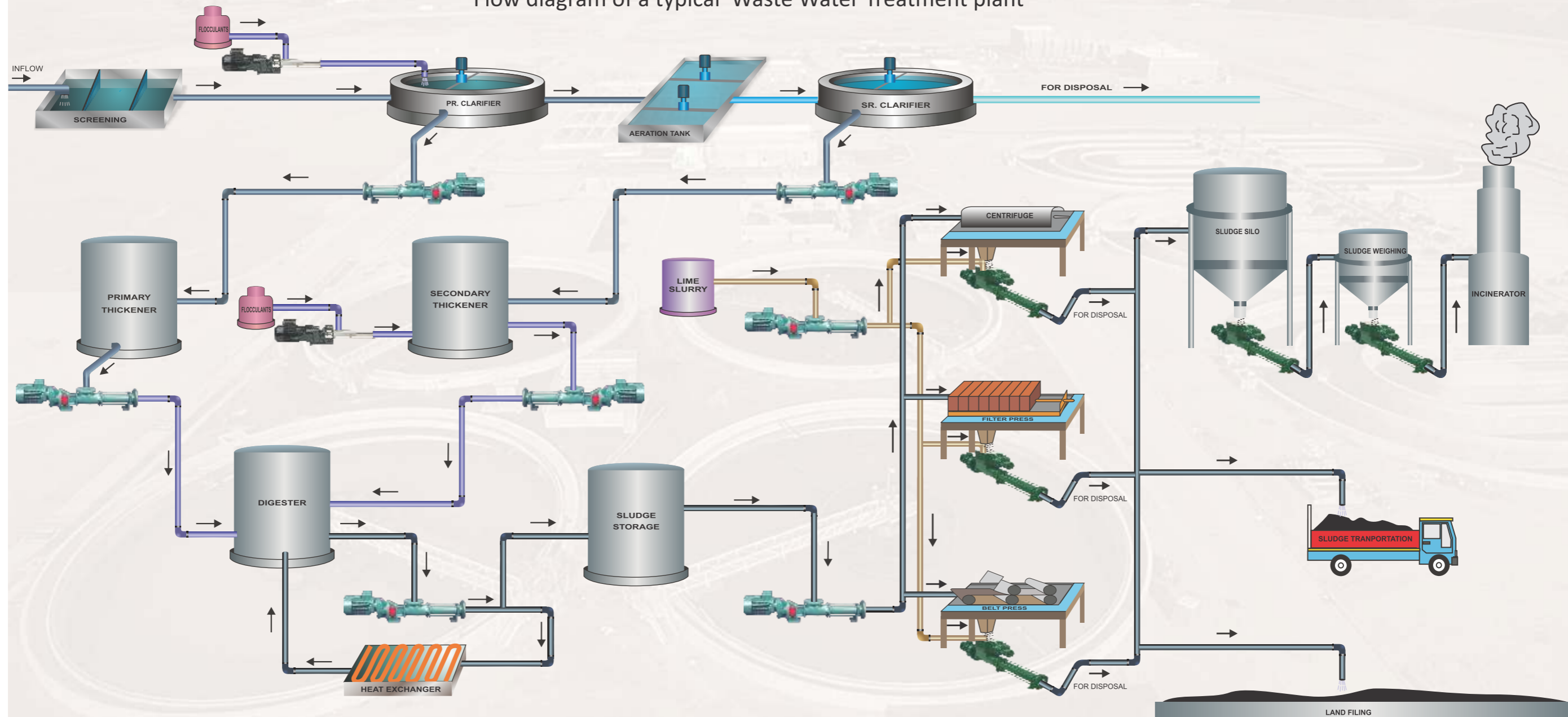
RJ series of dosing pumps

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.

Flow diagram of a typical Waste Water Treatment plant



FLUIDS HANDLED

Sludge Making

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

Dosing

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

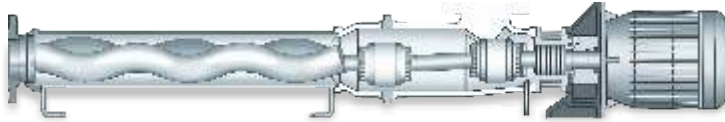
Dewatering

- Dewatered Sludge
- Sludge Cake

Roto @ work in Waste Water Industry



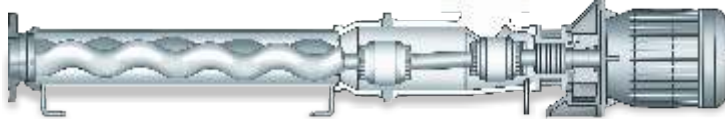
Extended Pitch Geometry



Capacities 420 M³/hr

Pressures 6 Bar

Standard Pitch Geometry



Capacities 250 M³/hr

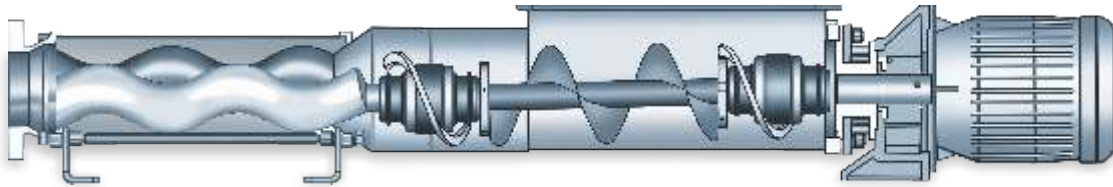
Pressures 48 Bar

Submerged Vertical



Capacities 420 M³/hr
Pressures 12 Bar

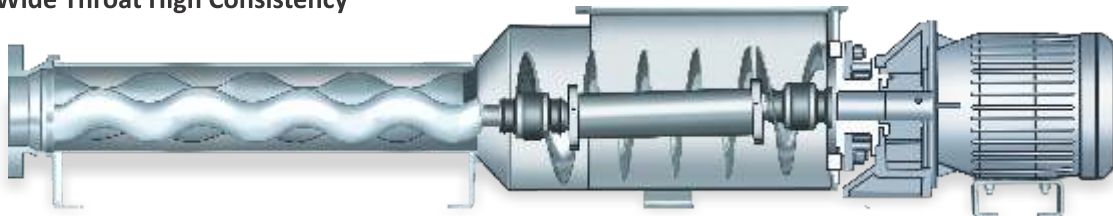
Wide Throat Medium Consistency



Capacities 150 M³/hr

Pressures 36 Bar

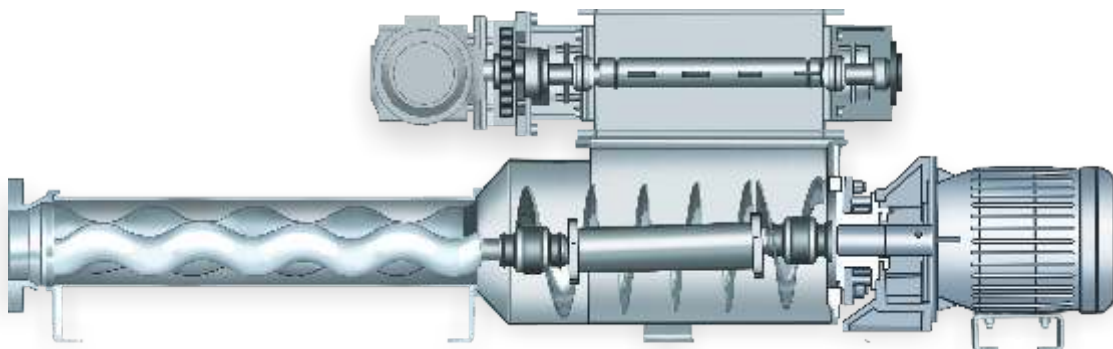
Wide Throat High Consistency



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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