



## MACERATORS

› A COST EFFECTIVE  
WAY TO PROTECT  
PUMPS RELIABLY

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# MACERATOR

## WATER TREATMENT PUMP

### PUMP PROTECTION FROM RAGS, FIBERS AND LONG PARTICULES FOR ALL WATER WORKS

A cost effective and reliable way to protect pumps using a proven concept based on a perforated shear plate and a rotating headstock.

The interchangeable cartridge assembly is comprised of the cutter head with a self compensating mechanism for fast recovery of a breakdown.

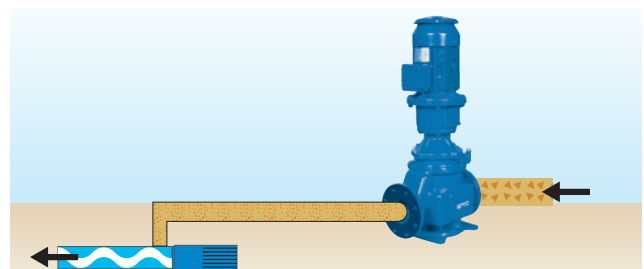
#### ▶ ADVANTAGES

##### Equipment

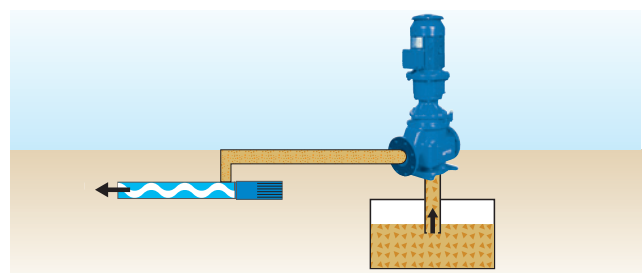
- Lower running costs
- Optimal cutting performance
- Less power requirement
- Higher performance
- Fewer spare parts
- Easier to maintain
- Reduced downtime for routine servicing

##### Process

- Protection of the pump reliability
- Creation of a pre-conditioned medium
- Replacement for in-flow grinders



In line circulation (ie: recycling of digested sludge).



Bottom entry for sewage (ie: pumping station).

# PUMP PROTECTION FOR ALL WATER WORKS

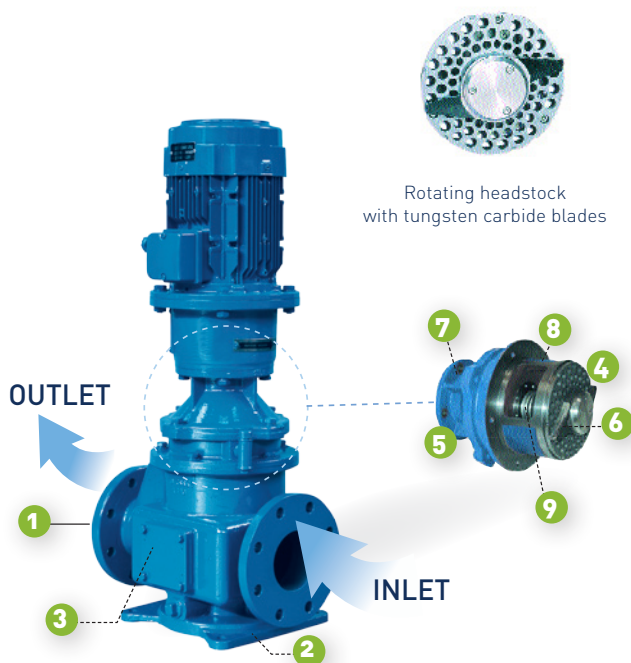
## APPLICATIONS

Designed to fit with new water plants or as a retro-fit for old pipeliners:

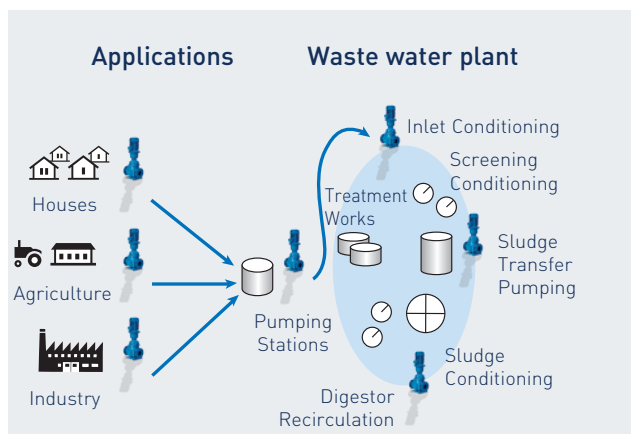
- pump protection from fibres and long particules
- improvement of preconditioning in the primary treatment
- replacement for in-flow grinders
- specially designed for sludge applications
- primary sludge
- biological sludge
- digested sludge

## Suitable for other applications

- protection for pumping stations on raw sewage
- maceration and mixing in industries (paper - breweries food - agriculture - oil...)



- 1 Base casting.** Various inlet locations to suit any work.
- 2 Settling out sump** for stones and metallic objects.
- 3 Easy access to stone traps** on both sides to clean out sump.
- 4 Shearplate and headstock assembly**
  - Replaceable on site
  - More efficient cutting assembly
  - Designed for a smoother cut
- 5 Interchangeable cartridge assembly**
  - Faster recovery of breakdowns
  - Less spare parts
  - Easy to service
- 6 Spring mechanism**
  - New cutter assembly
  - Self compensating mechanism
  - Double protection of the spring for longer performance
  - Smaller assembly
- 7 Robust bearing assembly sealed for life.**
- 8 Precision mechanical seal** running in oil bath.
- 9 Stainless steel** sleeving fully protects shaft from medium.



## OPTIONS

- Headstock stainless steel
- Shearplates stainless steel
- Wetted parts stainless steel
- Wetted parts austenitic cast iron (for sea water application)

## INDUSTRIES AND APPLICATIONS



### › ENVIRONMENT

Liquid sludge, lime milk, polymer, Ferric chloride, Aluminum chloride, PAC, WAC, Nutrient, Scum, Foam, Acids, Alkalines.



### › MECHANICAL ENGINEERING

Oil water mixtures, laminoire wastes, cutting oil, engine lubricants, engine lubricant wastes, waste oil, spent baths, lead paste, washcoat, slop, colloidal silica, water-glycol deicing, glycol, resin, hardener.



### › CHEMICALS

Glues, paints, varnishes, polymer, flue gas desulphurization, fiber production, colloidal silica, latex, pigment slurry, plasticizers, emulsion, zeolite, binder, sizing.



### › NEW ENERGIES

Oil, biodiesel, musts, vinasses, coal water mixtures, glycerin & methanol, soapstock, liquid manure, waste ion-exchange resin, dispersant, stabilizer, slurry from flue gas desulfurization (FGD).



### › MINERALS

Mineral slurries, explosive preparation, polymer, pulp, grouts, mortars, refuse derived fuels, chrome VI reduction, coloring agent, sludge.



### › PAPER

Mineral slurries (kaolin, talc, bentonite, calcium carbonate, titanium dioxide), binders (starch, casein, AKD, PVA, CMC, latex), additives (retention agents, dispersants, optical brighteners), coating color, polymer.