



Equipment



Macerators

A cost effective way to protect pumps reliably

- > Easy to maintain
- > Versatile
- > Cost effective solution



PCM Keep it moving

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.

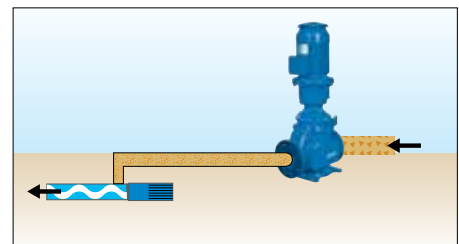
Advantages

Equipment

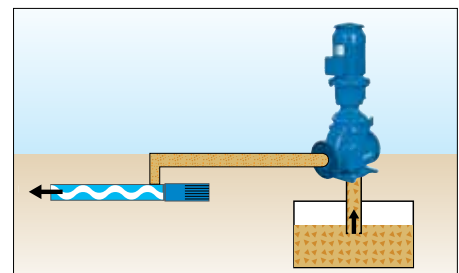
- Lower running costs
- Optimal cutting performance
- Less power requirement
- Higher performance
- Fewer spare parts
- Easier to maintain
- Reduced downtime for routine servicing

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: puming station).

Pump protection

FOR ALL WATER WORKS

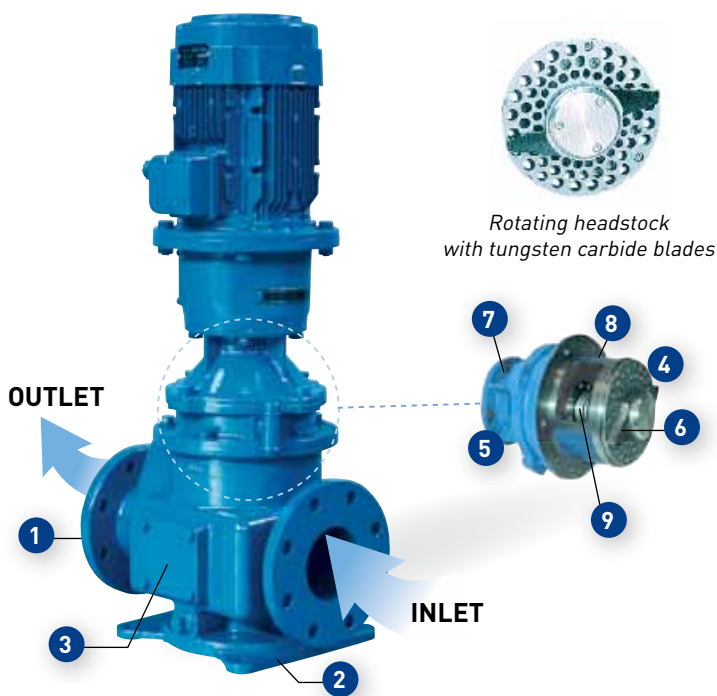
Applications

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

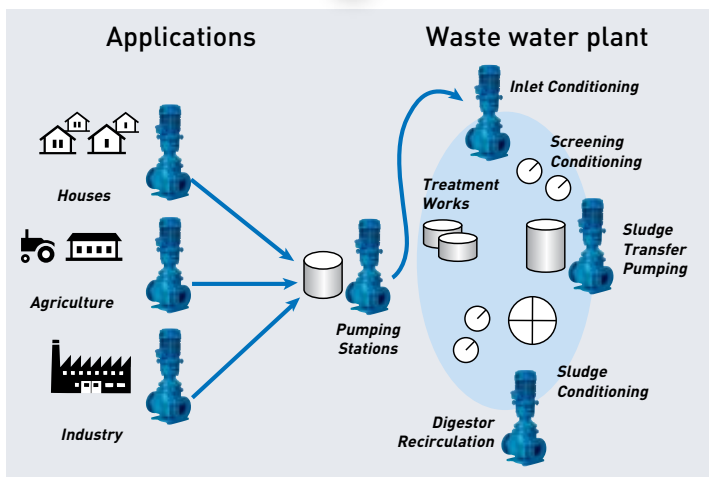
Suitable for other applications

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



Construction

- 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.