

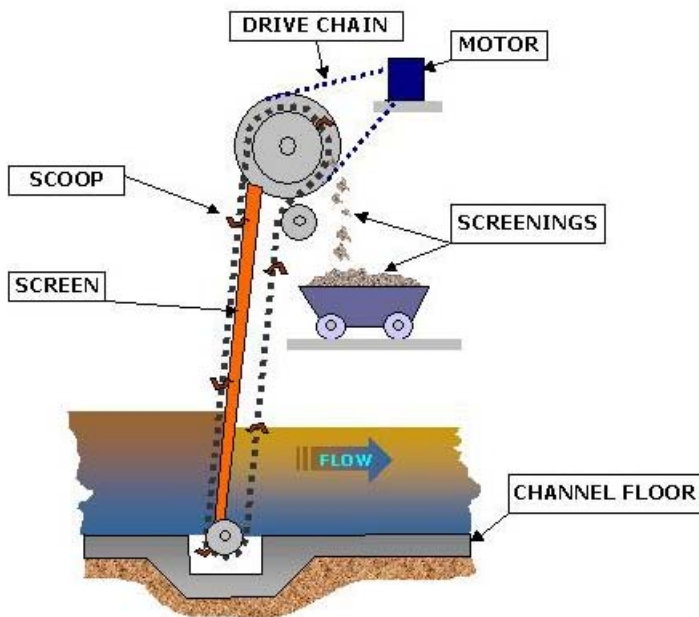


# Waste Water Treatment

## Coarse screens (mechanical)

### Trouble shooting guide

Problem	Possible cause	Corrective action
High rag content downstream of screen.	Screen bar missing or displaced.	Check bars and replace.
Limit switches faulty.	Corroded or burnt out	Replace by electrician.
Excessive build-up of debris on screen.	Screen overloaded	Remove build-up manually and increase frequency of raking (cleaning).
Rake not removing all debris during cleaning mechanism.	Rake not meshing with screen	Adjust.
	Rake worn or teeth broken.	Repair or replace.
Rake jamming.	Teeth bent.	Straighten or replace.
	Something jammed in bars	Remove obstruction.
Rake tripping out.	Overloaded motor.	Remove excess debris.
		Rake jamming on bars, electrician to check motor current.
Rake inoperative, but motor runs.	Broken shear pin.	Identify cause of break and replace shear pin.
	Broken chain or cable.	Replace chain or cable.
	Broken limit switch.	Replace limit switch.
Obnoxious odours, flies and other insects.	Accumulation of debris.	Increase frequency of debris removal and disposal.



**References:**

Ref.1. Water Institute of Southern Africa (2002): **Handbook for the operation of waste water treatment plants.** ISBN 0-958-45346-2.