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## Geiger® Revolving Chain Screen at the Sousse Power Plant in Tunisia, North Africa

### Situation

The Geiger® Revolving Chain Screen: heavy-duty equipment for the reliable and efficient removal of large quantities of debris.

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### End Customer

Sousse Power Plant  
Installed Power: 400 + 400 MW

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### Commissioning

Original Commissioning (with third party machines 2013-2016)  
Replacement Commissioning (with Geiger replacement machines 2019-2020)

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### Challenge

- Low-quality of existing equipment from the original supplier
- Poor pump station hydraulic design (too high flow velocity)
- Large debris load coming from the inlet bay
- Poor performance of the screens, not able to deal with the large amount of algae, seaweed and trash
- Poor technical response from the original supplier
- EPC still involved in the plant operation and in the overall project warranty

## Reference Plant A

- Geiger Screening Equipment has been working properly at the Sousse Power Plant A (since 1979)
- During visit in Sousse our Service dept. was informed about the reliability issues at C + D intake screens
- Owner requested support acknowledging quality difference between 40-year old working Geiger screens and competitor's screens at plant C + D



Geiger® Revolving Chain Screen during commissioning phase

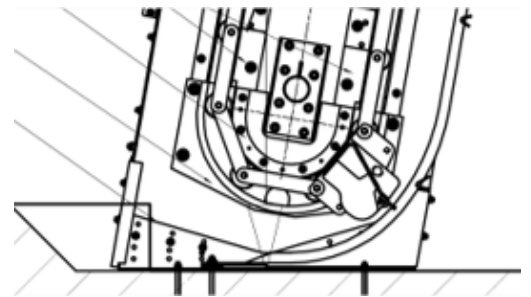
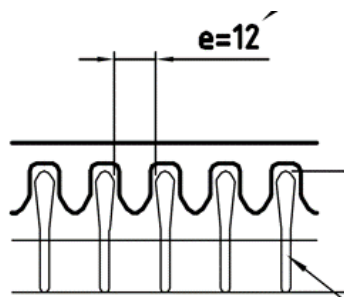
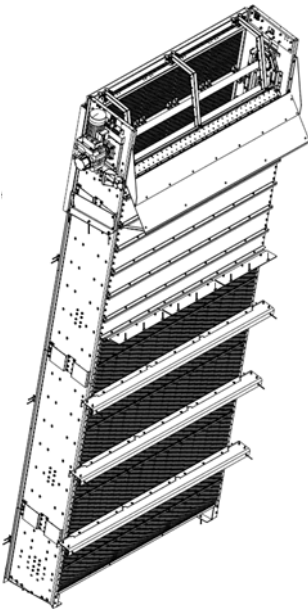


Example of incoming trash

## Technical Details & Solution

### 4 x Geiger® Revolving Chain Screen with reduced bar spacing:

- From 35mm to 12mm, with "tear-drop" bar profile to limit headloss
- Curved bar rack foot section to recover screening area
- More than 20 m<sup>3</sup>/h of trash removal capacity per screen
- Bar Screen details:
  - Channel width: 3.60 m
  - Channel depth: 7.93 m
  - Flowrate: 25,600 m<sup>3</sup>/h



Video: [Geiger® - Revolving Chain Screen - YouTube](#)

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