

Travelling band screen

El Marsa, Algiers, Algeria

Mediterranean Sea Desalination Plant



Case study:

The desalination plant of Réghaïa (El Marsa) is one of three desalination facilities developed by Cosider Canalisations and the Société Nationale de Génie Civil et Bâtiment (GCB). This new plant helps mitigate water restrictions caused by local drought conditions.

This complex project included the seawater intake supply for the El Marsa desalination unit. One of the main challenges was the location of the underwater screening system, positioned at a depth of approximately 12 metres, combined with significant tidal variations.

Thanks to the new desalination plant, the security of the region's water supply has been significantly strengthened.

Technical data:

Client	MES
Realisation	2022
Plant capacity	60.000 m ³ /jour
Nominal filtration flow	5600 m ³ /h.
Configuration	dual flow, outside-to-inside
Width	4000 mm
Filter pannels	1100 mm
Mesh opening	3 x 3 mm
Wire thickness	0.7 mm
Material	Super Duplex (1.4410)



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Commissioning:

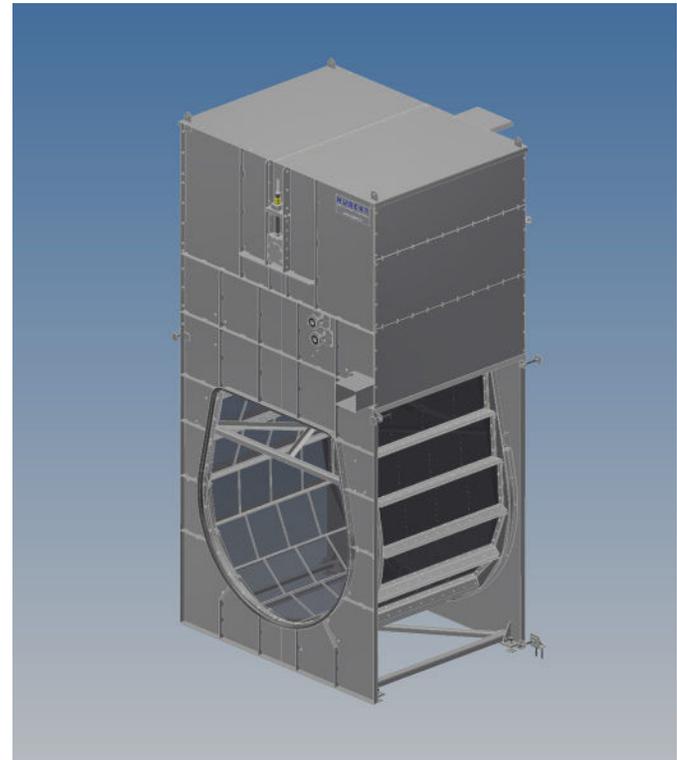
The former Hubert company, operating under the Noardling brand since 2024, was awarded the contract for the design, supply, and installation of two travelling band screens.

These units were delivered fully equipped, including additional control systems enabling fully automatic operation based on both timer and level control.

The supplied travelling band screen is a self-supporting framed unit, delivered fully pre-assembled for direct installation on site.

All moving parts are easily accessible and are not permanently submerged. The filter panels can be replaced easily, which simplifies maintenance.

Hubert also supervised the commissioning of both units.



Key features:

The travelling band screen forms the core of the water intake system. Designed especially for desalination plants, it features a compact vertical construction that is ideal for locations with limited space. It is also capable of withstanding large tidal variations.

Advantages:

- High capacity
- No debris bypass
- High filtration efficiency (99%)
- Compact footprint
- Suitable for large water level variations
- High quality and reliability
- Long service life (30 years or more)
- Resistant to abrasive water conditions
- Water-lubricated bearing (seawater)



Hubert is part of Noardling

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