ESTALEIROS NAVAIS DE PENICHE, S.A.

Shipbuilding & Ship Repair both in Steel and GRP
ENP assisted project Pelamis for final works, ballasting and in water testing.

- Manufacture of small components
- Tank Ballasting
- Final assembly
Project Pelamis

- Paint works
- Stability tests in water
ENP participated in project development (drawings) and manufacturing all tanks and ballast tanks for Waveroller structure

- Manufacture steel blocks (180 tons)
- All outfitting works were manufactured and installed

- Dimension control at FWD and AFT for future block connection
- Inspection and modification of blocks when necessary
- Non destructive tests in welded connections
ENP made all steel block connections on slipway so it is possible to release Waveroller in water

- ENP received blocks from Finland (3 x 63 tons steel engine rooms)
- Total of 22 blocks with 15 welded connections and 24 pin connections
ENP innovated, with AW-Energy, the development of flap drawings and a way to build each part

- Glass fibre panels manufactured by infusion
Special attention was given to shaft alignments on each flaps with laser technology.

- Shaft steel parts alignment with very small tolerance
- Flap dimension: 11400x8000x1100mm
- Flap weight: 7000 Kg

On flap, ENP applied a coat of silicone based paint.
ENP in final assembly and testing

- Flap installation on engine shafts

- Waveroller submerge testing