

# Case Study

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## Transport Equipment for a new Floating Dock

### Brief Description of Project Scope

In 2017 our client asked us to assist with a transportation of a brand new Floating Dock from the shipyard in Gdynia, Poland to Marsellie, France. The unit had been specially made to manufacture concrete caissons, which were to be used in the construction of a new, residential urban offshore project in Monaco. Given the extreme dimensions of the unit, being a length of 49.28 M, a width of 56.40 M, a height of 25.50 M and a weight of 7000 MT, the team prepared a complete feasibility study to successfully move the unit.



Initially, we assisted them with a feasibility study for the movement from port and checked the following items:

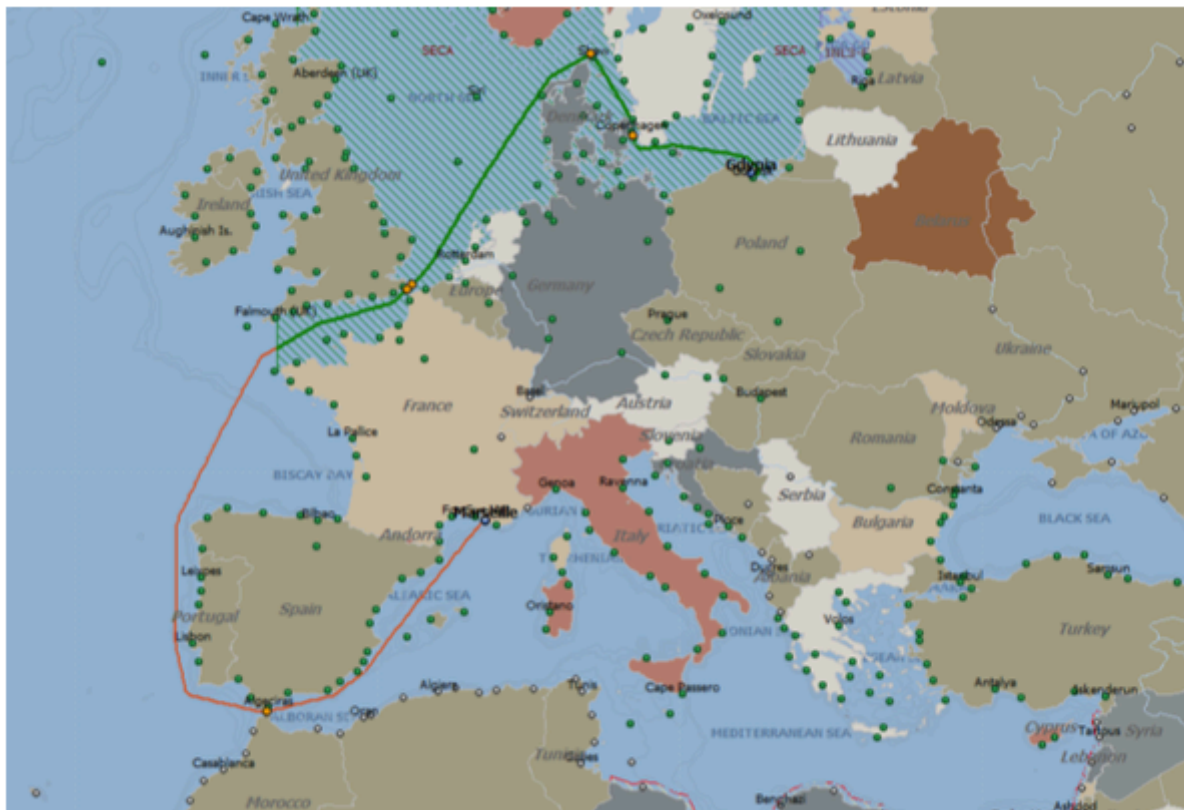
- Wet Towage vs Dry Towage Shipping
- Physical constraints
- Security risks and regulatory requirements
- Assessment of possible routes
- Identify obstructions, height clearance and restrictions of specific routes
- Time Requirements

After a thorough check, we identified the best option would be to deploy one of our agency Semi – Submersible vessels as Full Charter and send direct from Gdynia to Marseilles which would take approximately 12 Days All going well and weather permitting.

## SAILING ROUTE

### PRELIMINARY SAILING ROUTE

POL / POD	Gdynia → Marseille
DISTANCE	2,921 NM
SPEED	10.5 KNOTS
STEAMING DURATION	11.6 DAYS
DEP DATE	JULY 2017
ROUTE	AS BELOW







The Floating Dock was towed from the Shipyard to the vessels Anchorage point some 4 kilometres out to sea. Then began a 12-hour operation where the floating dock was positioned above the submerged deck of the vessel with the tugs. Once in position the vessel will re-floated and the sea fastening commenced. This took another 12 hours to secure safely with specialist supports and welding.





Vessel submerging and waiting at anchorage



Floating Dock arriving alongside submerged vessel. Some delay was experienced at anchorage as winds increased to over 20 knots. We have to wait until they subsided below 15 knots for a safe operation.





Floating Dock positioned onboard, vessel re-floating.



Specialist welding commences to secure the floating dock according to the seafastening plan

SUNRISE SEA-FASTENING PLAN

PLAN HISTORY

DATE	REV.	DESCRIPTION	OWN.	CHKD.	MR.
2017.06.29	1	TO ISSUE PRELIMINARY PLAN	SY NM	NH NM	JJ NM

DETAIL - A

DETAIL - B

ELEVATION VIEW

PLAN VIEW

STRONG BOX TY-2

BEND PLATE (1200mm)

STRONG-BOX DETAIL

FWD : F1 F4 F7

AFT : A1 A4 A7

BEND PLATE DETAIL

FWD : F2 F3 F5 F6

AFT : A2 A3 A5 A6

TITLE

SEA-FASTENING PLAN

VESSEL

SUN RISE

DWG NO. REF-S-17419-11-SF\_REV.0

REV. 0

CHECKED BY: N.H.KIM

DRAWN BY: S.Y.KIM

SCALE 1:1000

UNIT MM

DATE 20/06/17

SHEET 1 / 1

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Vessel ready for departure from Gdynia. From here she began her journey to Marseille and arrived some 12 days later after a safe journey.





After arrival. The unloading process began. Lashings released, welds cut and the vessel then submerged once again with tugs all fast ready to tow the floating dock to her new home in the port of Marseille.

