



UNDERWATER WORKS FOR THE CONSTRUCTION OF TANGER MED I & II PORTS

Hydrokarst
GROUPE



"For more than a decade, Hydrokarst has provided technical support and underwater expertise on both Tanger Med I & II projects.

From the inspection works to the building of the platforms, our divers have been involved at all stages of the construction of one of the greatest port complexes in Africa. "

PROJECT DESCRIPTION

Right from their onset, Tanger I & II displayed the ambitious goal to become the first container port of the Mediterranean Sea.

Widely recognized for its know-how in portuary works, Hydrokarst has notably ensured the positioning of the hydraulic levelers and monitored their progress underwater. The divers have also proceeded to the grouting of all four-lobed caissons, as well as to all the necessary welding and coring.

To guarantee optimum production during critical phases, the teams were made available night and day, reaching up to 35 technicians working simultaneously on underwater operations carried out.. up to a depth of – 45 meters.

IN A FEW WORDS

Place: Ksar Al Majaz, Maroc

Dates: Mars 2003 > Octobre 2014

Project owners: S.R.P.T.M. et T.M.B.Y.S.



SCOPE OF WORKS

2003-2011 > TANGER MED I PORT

- Underwater inspections
- Building of 126 platforms with 252 leveler movements
- Assistance for the fitting of 63 four-lobed caissons by floatation and ballasting
- Assistance for the building of 9 RORO quays in concrete blocks
- Assistance for the construction of a grain terminal and an oil wharf
- Fitting of posts
- Fitting of cathodic protection and potential measurements
- Underwater casing, grouting, injection, spall repair
- Underwater coring, welding, cutting
- BP motor pump cleaning and HP jetting
- Rockfilling and acropodes
- Laying of anti-scour fronded mattresses on 400 m²
- Refloating of concrete pathways

2011-2014 > TANGER MED II PORT

- Underwater inspections
- Building of 110 platforms with 220 leveler movements
- Assistance for the fitting of 110 four-lobed caissons by floatation and ballasting
- Underwater casing, grouting, injection
- Underwater coring, welding, cutting
- Fitting of cathodic protection and potential measurements
- Laying of anti-scour fronded mattresses on 600 m²
- Refloating of a crane
- Inspection of barge hulls – Bureau Veritas reference scheme
- Repairs on quay corners
- Assistance for the building of quays in concrete blocks

HUMAN MEANS

- 25 technicians and divers (average)
- 2 full-time logisticians

MATERIAL RESOURCES

- 10 diving sets
- 1 therapeutic unit for emergency
- Hydraulic tools
- 2 boats

FACTS AND FIGURES

- 15.000 dives
- 135.000 m³ of NITROX
- Maximum depth: - 45 m
- 472 leveler movements