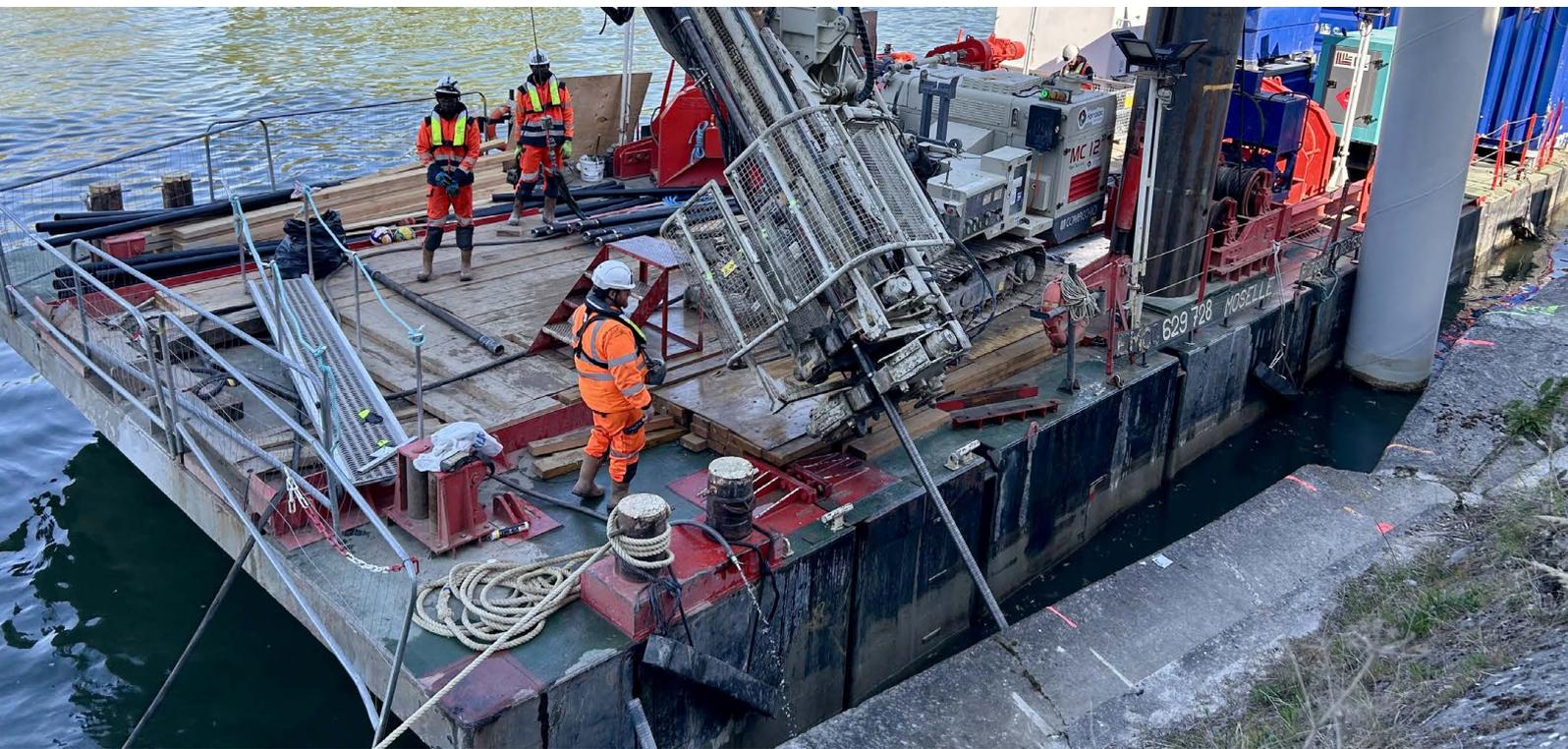


# Quay Reinforcement for the Future Yacht Marina in Cormeilles

Grouted anchoring with TITAN micropiles



The existing quay is currently being repaired as part of the development of the port on the site of the “Seine Parisii” Marina in Cormeilles-en-Paris, about 12 km north-west of Paris. Under the direction of the company BOTTE Fondations, the quay wall is being secured by means of 20 Ischebeck TITAN 73/45 self-drilling tension micropiles.

## The challenge

Before the actual work on the new marina began, several buildings were constructed. This required the relocation and structural reinforcement of an existing old quay wall. Due to insufficient knowledge of the construction of the old structure, as well as the geotechnical properties of the subsoil, the Ischebeck TITAN self-drilling system was chosen as the appropriate solution.

## The solution

The Ischebeck self-drilling system is particularly suitable for difficult geological subsoil conditions and in the case of challenging construction site conditions.

Compared to conventional anchoring systems drilled using casing pipes, the process facilitates significant installation time and cost savings. This is achieved by

drilling, injecting (dynamic grouting) and inserting the steel hollow bar simultaneously in one operation without the need for casing pipes. Finally, the head construction is embedded in the reinforced concrete beam.

Technical data:

- 20 TITAN 73/45 tension micropiles
- Length 24 m, of which 9 m free length is produced in the HDPE tube
- Characteristic load capacity  $R_k = 1,220$  kN

Depending on the durability requirements, the Ischebeck system can be used to protect against corrosion by means of providing adequate grout cover or by additional coatings of the steel hollow bars, such as galvanising.

## Project:

Reinforcement of the marina quay with a longitudinal beam construction made of reinforced concrete to bear the forces of the tensile anchors, at Cormeilles-en-Paris, Paris, France

## Construction period:

April 2025 (3 weeks)

## Contractor:

Botte Fondations

## Products used:

- 20 TITAN 73/45 micropiles as tensile micropiles
- 175 mm Carbide-Y-Cross drill bit



Installation of the tension micropiles from the pontoon



Existing quay wall with TITAN tension micropiles installed



Placement of drilling equipment on a pontoon



A minimum distance had to be maintained between the pontoon and the quay wall

**Would you like to find out more about TITAN micropiles?**

We would be happy to advise you about your project. Simply get in touch with us. We look forward to hearing from you.