

## REFERENZ HARBOUR CONSTRUCTION AND MARINE ENGINEERING Redevelopment of West Quay Kaiserhafen III, Bremerhaven



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The construction measure put out to tender here comprises the renovation of the western quay in Kaiserhafen III and the construction of a jetty for berths for the ships and barges of bremenports' maintenance dredging and work ships. The work is being carried out in a joint venture with Aug. Prien.

### Redevelopment of the West Quay

To refurbish the west quay, the construction site must first be cleared of obstacles. This includes the removal of old foundations of a loading ramp. On the shore side of the existing quay, a new quay is to be constructed over a length of 440 m as a sheet pile wall structure with concrete spar and tieback.

The back anchorage is to be constructed with 1:1 inclined piles. The leading edge of the quay is to be at a height of +3.05 m above sea level.

In the southern extension section (approx. station 0+476 to approx. station 0+538), the foundation structure of an existing crane runway will continue to be used.

After completion of the quay, the old quay construction including pile foundation is to be dismantled and the soil in front of the new quay is to be removed to the target depth.

**Services:** Pile driving / concrete work / demolition work / earthworks / paving work

**Contract Volume:**  
~ 16,6 € Mio

**Contractor:**  
F+Z Baugesellschaft  
**today:** Depenbrock Ingenieurwasserbau

**Client:**  
Sondervermögen Hafen der  
Stadtgemeinde Bremen, vertreten den  
Senator für Wirtschaft, Arbeit und Häfen,  
dieser vertreten durch die bremenports  
GmbH & Co. KG

**Construction time:**  
2017 - 2018

**Location:**  
Bremerhaven

**Technical data / main masses AE :**  
Pulling 2250 wooden piles  
44,800 m<sup>3</sup> removal of clover  
9360 to dispose of excavated earth > Z  
2  
2700 to supporting piles HZ 880 MC  
480 to anchor piles  
740 to intermediate piles AZ 26-700  
3100 m<sup>3</sup> reinforced concrete

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#### **Construction of jetty**

As a result of the refurbishment, 6 berths of the maintenance dredging of bremenports GmbH & Co. KG will be lost. These will be replaced by the construction of an approx. 120 m long jetty for the dredging equipment and work ships of bremenports GmbH & Co. KG.

This jetty consists of a foundation of steel piles and a frame structure of steel girders. The walking surface is to be made of galvanised steel gratings. Furthermore, the jetty is to be equipped with lighting, which, however, is not part of this tender.

**Services:** Pile driving / steel construction

