

## REFERENZ HARBOUR CONSTRUCTION AND MARINE ENGINEERING

### Harbour extension port Odessa, Ukraine



Harbour extension (container terminal with two ship mooring berths) in Port Odessa

The backfilling of the land side of the container quays was carried out by creating a reclamation dredging area and thus gradually raising the level of the land. The container quay has two ship mooring berths. Length of the two ship mooring berths: 650 m, water depth -16.00 m.

Length of the new pier and shore line: approx. 1,116.5 m

**Order volume:** 8 mill. EUR

**Contractor:**  
F+Z Baugesellschaft  
(40%, commercial management)

**Client:**  
Mast-Bud GmbH, Mariupol (Ukraine)

**Construction period:**  
2010 - 2012

**Location:**  
Odessa, Ukraine

**Technical data / main quantities:**  
Load-bearing piles PSp 1035S/25,  
length up to 45.6 m → 362  
Pile infills PZi 612/21,  
length up to 26.0 m → 361  
Tubular piles, diameter 1220 mm,  
length up to 45.2 m → 350  
**Total 21,906 t steel**

**Equipment used:**  
Equipment pontoon "KURT" 50 x 22 m  
Tracked cable excavator LIEBHERR HS  
895 HD (250 t), 55 m boom  
Tracked cable excavator LIEBHERR KH  
850-3 (150 t), 42 m boom  
Diesel hammer DELMAG D62-22  
Vibrator MÜLLER MS-62 HFV

DEPENBROCK