Development of purpose-built offshore decommissioning facility at the Port of Frederikshavn, Denmark
Modern American Recycling Service (MARS)

- Established in Southern part of USA at the Gulf of Mexico
- Decommissioning (scraping) of offshore oil installations and ships (all that contains metal)
- Growing market in Europe. High potential.
- Expand to Europe
- Agreement with the Port of Frederikshavn to develop site in Denmark (2016)
- Site visit at the MARS facility in Louisiana, USA in November 2016
- Development of purpose-built facility in Frederikshavn (2016-2019)
Water depth 14 m

General load-in/load-out quay 5-10 ton/m²

SPMT load-in 10 ton/m²

Skidding area 60 x 140 m

Ship ramp 90 x 107 m

Facility area 290,000 m²
Skidding area
60 x 140 m

- Used for extreme heavy components (platforms up to 50,000 ton)
- Uniform bearing capacity of 60 ton/m²
- Line load below skid runs more than 150 ton/m
- Settlement criteria of 3 mm/m
- Approx. 2,300 concrete and steel piles
Ship ramp
90 x 107 m

› Treshold at basin, level -4.65 m
› Slope 1:15
› 10 to 25 ton/m² bearing capacity
› Concrete surface with steel beams
› 2 pcs. 1000 t winch pull systems
Heavy lift cranes

- Manitowoc 31000 - maximum lifting capacity 2,300 ton
- Manitowoc 18000 - maximum lifting capacity 750 ton
- Manitowoc 4100 - maximum lifting capacity 230 ton
Pavement and drainage

› Plastic or bentonite membrane 1 m below ground
› 300-700 mm crushed rock pavement
› Drainage lines with rock fascines
› Cleaning facility with 5,000 m³ storm water storage capacity