

# PROJECT SHEET

**MASNEDSUND BRIDGE, DENMARK**  
LIFTING SERVICE

## BOSKALIS

Royal Boskalis Westminster is a leading global marine contractor and services provider. With safety as our core value, we offer a wide variety of specialist activities to the oil & gas and renewables sectors. These activities include marine installation and decommissioning, seabed intervention, marine transport and services, subsea services and marine survey. In addition, Boskalis is a global dredging contractor, provides towage and terminal services across the globe and delivers marine salvage solutions.

By understanding what drives our clients we are able to provide the solutions that enable them to meet their specific business goals. For this reason we are constantly looking for new ways to broaden and optimize our offering and are committed to expanding our proposition, supported by our financial strength.

With our committed professionals in engineering, project management and operations, 900 specialized vessels and an unprecedented breadth of activities in 90 countries across six continents we help our clients in the offshore industry push boundaries and create new horizons.

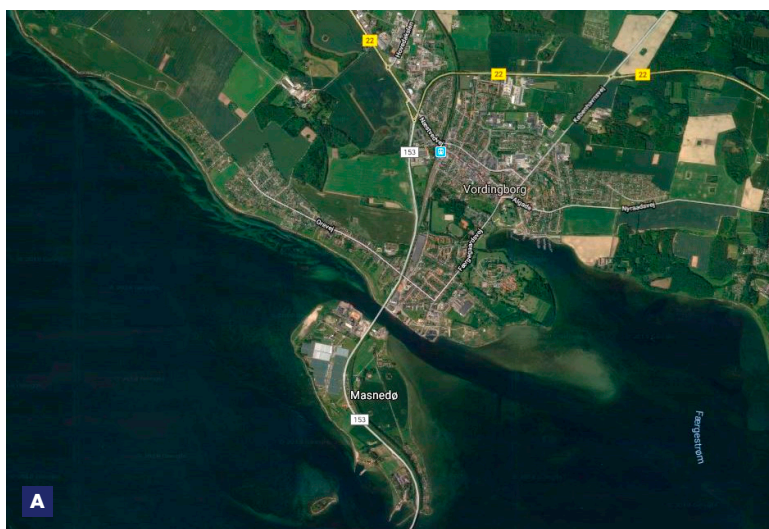
## INTRODUCTION

Per Aarsleff has been awarded with the contract for design and construction of the new Masnedsund Bridge. The new bridge will cross the Masnedsund alongside the existing bascule bridge, which will be converted into a road bridge once its replacement is in place. The 200 m long concrete bridge will have six spans and will be 14 m wide, carrying double rail tracks. It will provide 5 m clearance to the water.

The work is part of the Ringsted-Fehmarn rail project, which includes expansion from single to double track between Vordingborg and Rødby as well as electrification of the entire section. It will improve connections to the Fehmarnbelt Tunnel, which is to be built as a new link between Denmark and Germany.

## FEATURES

Client	Per Aarsleff AS
Location	Vordingborg Denmark
Period	July 2018 - August 2018
Contractor	BOMS BV
Entity	TMS
Contract	Lifting services based on dayrate
Equipment	Taklift 4 in A-frame configuration



- A** Location map
- B** Taklift 4 arriving at Vordingborg, commencement of mobilization



**SCOPE**

The bridge will be constructed using prefabricated foundations (with pillars) and girders. A total of five foundations and six girders shall be installed by the installation vessel.

Pillar no.	Width [m]	Length [m]	Height [m]	Weight [t]
1	12.6	12.6	11.6	1072
2	12.3	12.3	11.6	1039
3	14.0	14.0	12.1	1194
4	15.5	15.5	11.6	1194
5	13.3	13.3	13.1	1193

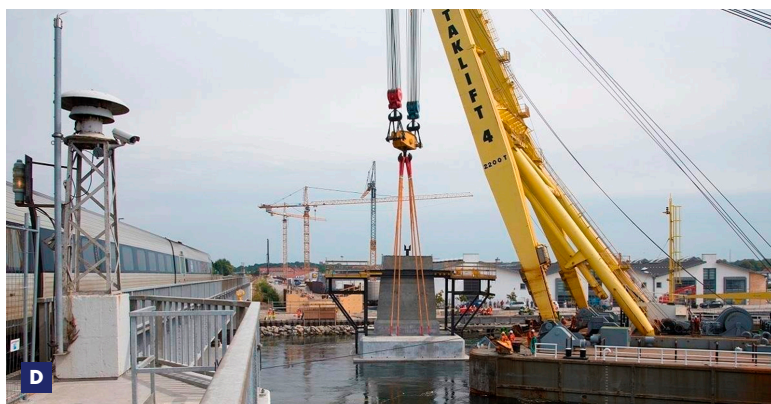
Girder no.	Width [m]	Length [m]	Height [m]	Weight [t]
1	13.7	33.6	3.3	1074
2	13.7	33.5	3.3	1053
3	13.7	33.5	3.3	1054
4	13.7	34.0	3.3	1069
5	13.7	33.0	3.3	1039

**SAFETY**

With all Boskalis' projects safety is an essential part. The project was executed with a good safety performance of the marine crew and superintendents. Taklift 4 was manned during the execution with Client reps and surveyors for a smooth cooperation during the installation.

**CONCLUSION**

All lifting operations went according to plan. The performance and crew of Taklift 4 exceeded CLIENT's expectations. Maintaining the highest safety and sustainability standards, Boskalis provided innovative and competitive all round solutions to our clients in the civil construction sector.



**C** Installation of last girder  
**D** Lifting of the first pillar