

MAXIMA BRIDGE



- **LOCATION**

Alphen aan den Rijn - The Netherlands

- **CLIENT**

Hollandia Infra

- **PROJECT SUMMARY**

Sarens lifted the two bridge parts for the new Queen Maxima Bridge. The bascule bridge, that spans over the canal Oude Rijn, was designed to divert traffic from the congested city center of Alphen aan den Rijn. The movable bridge parts were lifted into place by using our 650t crawler crane with superlift. A stable platform for lifting was also created using our own twin barges, "Karel" and "Victor".

Sarens has successfully executed the engineered heavy lifting and transport project according to the highest safety standards.



• OBJECTIVE

Sarens was contracted to lift both bridge parts, weighing 230 and 280t and approximately 30m of height. The bridge is located over the Oude Rijn canal which has a width restriction of 14m.

• SOLUTIONS

The lifting solution was developed in close cooperation with the client and resulted in a 650t crawler crane with superlift attachment positioned on the Sarens twin barges, "Karel" and "Victor". The Sarspin, a hydraulic leveling tool, was integrated in the lifting tackle arrangement to ensure both bridge parts were absolutely level during the lifting operations.

Firstly, the crane was partially erected on the two twin barges, which were connected upon arrival at the job site. Once connected, the twin barge formed a stable platform, held level during the lifting operations with hydraulic driven ballast pumps.

Between both lifting operations, the barge was shifted to the other side of the bridge.

To achieve this, the complete set-up needed to be disassembled to pass the new built bridge and reconnected again on the other side.

• RESULTS

- safe and secure execution
- Sarens was responsible for the complete door-to-door transport and handling of the bridge parts

