

Knippels Bridge

Denmark



The floating crane transporting one quarter of the bascule bridge.

Knippels Bridge, built in 1939, is a bascule bridge across the port of Copenhagen. It is one of the busiest main thoroughfares between Copenhagen and the island of Amager, with daily traffic of 30,000 cars, buses and trucks.

The bridge has a length of 140 m including two fixed spans in concrete, both 44 m long, and a double-leaved steel bascule span over a navigation channel of 35 m.

The works included a comprehensive rehabilitation and strengthening of the bascule span and reconstruction of the concrete piers.

The old mechanical machinery was exchanged to a new hydraulic lifting system with an electric operation system.

The bridge was required to be in service for traffic during the entire construction period. This was achieved by dividing the bascule span longitudinally in two sections. While one section in service, the other was taken to a workshop by floating crane.

Services

- **Conceptual design**
- **Detailed design**
- **Supervision of construction.**

Project period: 1989-1991

Client: Port of Copenhagen and Municipality of Copenhagen