



Competition for the design of an opening 3-lane highway bridge across the historic inner harbour of Malmö in an area of urban re-development. The design was the winning proposal in an invited competition in 2000. The bridge was opened in 2004.

The unusual cable stayed swing bridge solution evolved from the desire to minimise the depth of the bridge deck and avoid building up the level of the existing quaysides at each end of the bridge. This achieves a slender appearance and maximises the available headroom clearance under the bridge for small craft. The twin steel masts stand astride the highway and are placed on the opposite side of the channel to the existing lighthouse, a popular local landmark, so as not to interfere with views of it from the surrounding quaysides. The deck comprises twin longitudinal steel boxes with crossbeams at 4.5m centres. Cantilevers extend on each side to support a timber deck for pedestrians and cyclists. The 36m main span is balanced by a 14.5m side span with counterweights suspended beneath the deck within the depth of the edge beams.

The bridge pivots about a bowl-shaped supporting pier which appears to float on the water. This pier contains the primary drive and lift mechanism required to operate the bridge. The locking arrangements are located within the east abutment structure, set into the quayside.

**Client:**  
Stockholm County Council

**Location:**  
Malmö, Sweden

**Architect:**  
Dissing + Weitling Architects

**Service Dates:**  
2000-2004

**Services:**  
Conceptual and Detailed Design

