

# Aston Bridge Slide (Bridge 14A, Nechells, Birmingham)

**Client:** Railtrack

**Consulting Engineer:** W.S. Atkins Ltd.

**Main Contractor:** Laing Civil Engineering Ltd.



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CIVIL 19



**Above:** The bridge in final position.

Fagioli PSC moved the 3,000 tonne weight bridge and jacked it down onto its permanent bearings in under 2 hours, allowing the Main Contractor extra time for earthmoving and other works during the 48 hour possession period.

Fagioli PSC's modular bridge sliding system consists of purpose designed jackable skates incorporating free sliding bearings which carry the load, pulled by Fagioli PSC strand jacks, along a standard low profile crane rail.

**Below:** Two Fagioli PSC L50 strand jacks on each side provide the pulling force along the slide path.



**Above and Below:** The vertical jacking facility provides a hydro-cushion support and controls final positioning.



The Fagioli PSC bridge sliding systems benefits are:

- The skate and rail arrangement gives a consistent low coefficient of friction.
- Hydraulic linkage of the skates provides a cushion support to the structure during movement.
- The vertical jacking facility in the skates enables precise control of final positioning.
- Suitable pulling forces can be selected from Fagioli PSC's standard range of strand jacks.
- Movement speeds of over 30 metres per hour are possible.
- The elements of the system can be configured to suit most load and support requirements with a minimum of setting out and fixing details.