

„SZT. LÁSZLÓ” MOTORWAY -  
BRIDGE OVER THE DANUBE

Hungary



**Client:**

National Motorways Ltd,  
Hungarian Bridge Construction Consortium

**Technical data:**

Total length of the bridge: 917 m (together with the river bridge designed by others)  
Spans of the flood plain bridge: 3 x 65,5 m  
Width of the flood plain bridge 2,95 m + 10,0 m + 1,05 m.

**Consultancy services provided:**

Elaboration of the tender invitation materials  
Design for Approval  
Execution designs  
Technical supervision  
As-built designs, Instructions for the Operator

**Bridge structure:** on both floodplains: steel box support bridge acting with rc plate, connected to the river bridge at both ends.

**Innovative features of the bridge:**

- The innovative structure of the rc deck slab and its dimensioning allowed to omit completely the moving of the supports, time- and work consuming activity.
- The longitudinal U ribs of the web plates and the soffit slab are not connected to the transverse girders spaced 4m from each other (suitability verified by finite element calculation and tests in 1:1)
- For the in-site assembling procedure of the steel structure temporary supports were used, replaceable by crane in 1 piece and not needing separate foundation work. These yokes type REM 500 assembled with temporary supports produced in GDR were used also at the construction of other bridges.



Temporary support made of REM 500 type structure