

ITALY : INSTALLATION OF A 882 TON RAILWAY BRIDGE BY SPMTs AND ROLLERS

PROJECT	EQUIPMENT	WEIGHT
CIVIL	SPMTs / ROLLERS / TOWER STRUCTURES	882 TON

#	Item name	WEIGHT [t]	LENGTH (m)	HEIGHT (m)	WIDTH (m)
1	Bridge	882	82	11,6	11,6

Fagioli were contracted for the transport and installation of a railway bridge in Central Italy. Dimensions of the bridge were the following: length 82 m; width 11,6 m; height 11,6; weight 882 ton. The railway bridge was positioned over the highway A14 and the Bologna ring road. The operation was divided in several steps and due to its complexity it was necessary to close the roads several times during the three nights required to execute the final installation. Few days before the final installation onto a very relevant area for the traffic jam Fagioli assembled the SPMTs necessary to perform the operation.

PHASE 01 Fagioli used 2x 18 axle lines SPMTs to lift the bridge from its supports and move it for 500 m.

PHASE 2 The bridge was moved ahead and was left suspended above the highway

PHASE 3 The bridge was lowered onto temporary supports (provided by the client under Fagioli request).



PHASE 4 Fagioli provided 2 x 8 axle lines SPMTs positioned at the back of the item.

PHASE 5 The highway was closed in order to allow the positioning of 2x12 axle lines provided with tower structures at the front of the bridge

PHASE 6 The convoy was moved ahead by the SPMTs (the trailers at the back and those at the front were operating at different height levels).

PHASE 7 The bridge was released by the SPMTs at the back onto some rollers (2 x 300 ton each) previously positioned

PHASE 8 Final installation of the bridge by means of SPMTs and rollers.

It took three nights to perform this operation. During the second night, after the closing of the highway, road barriers and guard rails were removed in order to allow the transport and rotation of the bridge. Once in correct position the bridge was released onto its final supports where the client performed the last alignment and connections. 40 ton capacity SPMT axle lines and 6 meters high tower structures provided with beams on top were used for the duration of the operation. No. 2 x 300 ton Rollers were used for the alignment and rotation operations.

