Use of DYWIDAG Technology for bridge construction in Tel Aviv, Israel

Construction of the Roka and Ayalon railway bridges in Tel Aviv, Israel

The construction of a new railway line in Israel included the erection of several new bridges. The superstructures of the Roka and Ayalon bridge were designed as continuous post-tensioned hollow box girders with constant depth. The deck widths are 5.2 and 5.6 m, the typical span lengths are 25 and 33 m respectively.
The Roka bridge has a length of 80 m and the length of the Ayalon bridge is 154 m.
The bridges were cast in several segments in lengths between 11 and 14 m and brought into final position using the incremental launching method.
For post-tensioning of he bridge decks the DYWIDAG MA Strand Post-Tensioning System with R type couplers with 9 x 15.7 mm and 12 x 15.7 mm tendons was chosen.

Reference Details:

Owner Israeli Railway Authority +++ **Designer** Avner Drori, Tel Aviv, Israel +++ **Consultant** Yaron, Shimoni, Shacham Consulting & Engineers Ltd., Tel Aviv, Israel +++ **General Contractor** EL GAD Ltd., Tel Aviv, Israel

DSI Services Supply of DYWIDAG Strand Post-Tensioning System including anchorages and couplers as well as special equipment.

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