



## BUSINESS ACTIVITIES

New Structures/Stay Cables/H2000/Anchorage  
New Structures/Heavy structure handling/Heavy lifting/Strand tendons

New Structures/Post Tension/Strand Systems for Bridges and Major Structures/C range

<b>General contractor :</b>	Astaldi-Gulermak JV
<b>Customer/Owner :</b>	Istanbul Municipality
<b>Engineer :</b>	Hakan Kiran
<b>Freyssinet Subsidiaries</b>	Freyssinet International MPD / Freysas
<b>Start of works period</b>	08/2012
<b>End of works period</b>	05/2013

## PROJECT DESCRIPTION

The new metro Halic Bridge is the 4th bridge over Golden Horn inlet in Istanbul.

This 919 m structure is made of 2 elegant concrete Viaducts, one Stay Cables Bridge and one Swing Bridge.

This project is part of the overall extension of the public transport decided by the municipality. It allows the extension of the line M2 between Yenikapi and Taksim square. Passengers station is located at the middle (between the 2 pylons of the stay cables bridge).

Special cares were given for THE enhancing of the historical background and the protection of the cultural heritages during the project elaboration and the construction.



## FREYSSINET MISSION

Freyssinet was in charge for the Astaldi-Guermak JV of the specialist bridge works:

- Design and supply of the 36 stay cables: ultra compact system H2000 - Unit 55 to 75, equipped with Internal Hydraulic Damper
- Installation and construction engineering follow-up of the stay cables
- Design and supply of the 4 specific segment lifters
- Heavy lifting of the segments (230T, 17m length)
- Supply and install the post-tensioning of the 2 viaducts (172 tendons 19C15)
- Supply of the elastomeric and pot bearings

All these works were successfully executed between August 2012 and May 2013.