Construction of the Bosphorus Strait Tunnel

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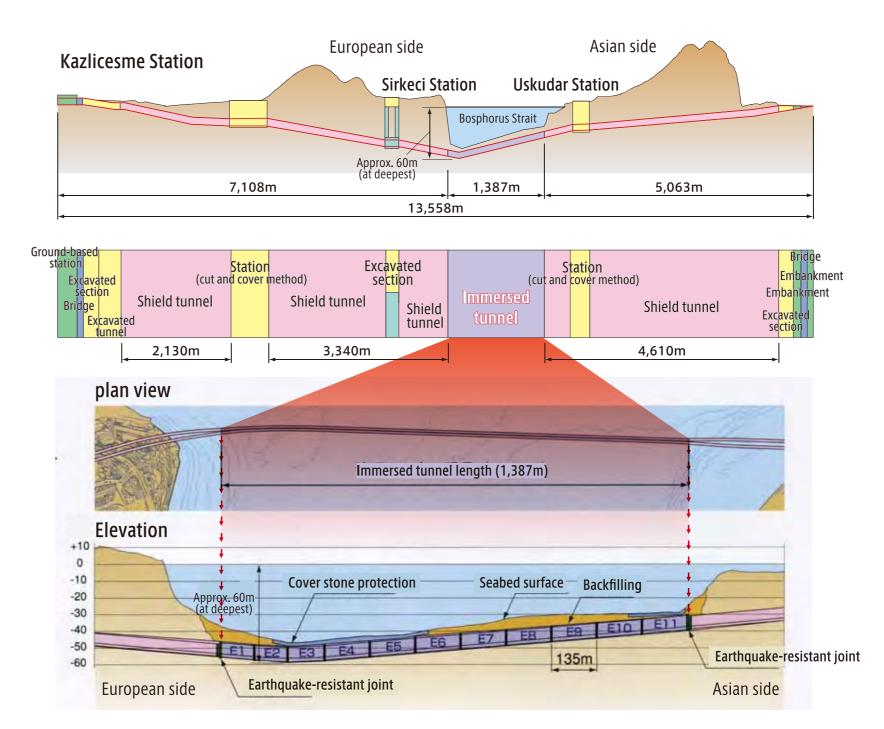
Immersed tunnel

Installation of massive concrete immersed tube tunnel over 100m in length on the seabed at a depth of 60m (world's deepest), amidst complicated ocean currents



The immersed tunnel construction method is towing tube elements floating on the sea surface to the installation site, repeating the underwater installation process in sequence and connecting the elements to build a continuous tunnel tube on the seabed.

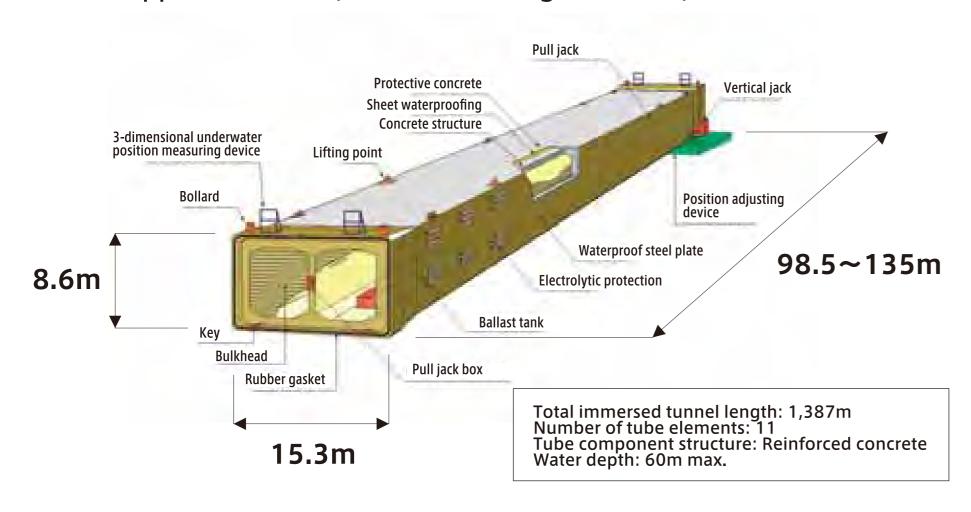
The lower halves of tube elements were built in the Tuzla dry-dock and then the upper halves built on the sea surface. The completed elements were then towed for approx. 40km, immersed and installed on the seabed to be connected together one by one.





Underwater installation of immersed tube elements and connection at the world's greatest depth in rapid tidal currents

Approx. 18,000t (\pm 17600kN, weight on land)

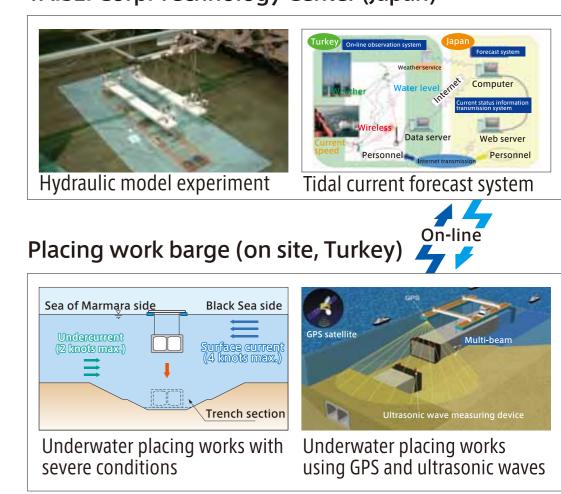


Immersing works at the world's greatest depth (60m)

Development of an on-line system that forecasts complicated current situations where rapid tidal current directions differ in the upper and lower levels.

Tidal currents are forecasted in Japan for 36 hours prior to immersing works for safety.

TAISEI Corp. Technology Center (Japan)



The world's first construction of an RC immersed tunnel tube elements on the sea



