

 **Bridges****Reference Details:**

**Owner** Government of Pusan +++ **General Contractor**

Shodai / Japan and Yusin / Korea +++

**Engineering**

Engineering Department of Dong Ah Const. CO. LTD +++ **Architekt** Sam Woo Engineering

**DSI Services** Supply of 600 restressable DYWIDAG Bonded Multistrand Tendons, Technical assistance Radial arrangement of restressable DYWIDAG Bonded Multistrand Tendons to transfer the main cable force dynamically to the anchor body.

**Innovative solution using restressable tie backs****Kwang-An Suspension Bridge in Kwang-An Beach, Pusan, South Korea**

In an exemplary manner DSI's new competence center strategy was put into practice on this project. After the main contractors Shodai / Japan and Yusin / Korea and the project engineer had been convinced that restressable DYWIDAG Bonded Multistrand Tendons were the preferred system to meet all construction requirements, DSI Korea was awarded the contract. In close cooperation with DSI Munich a special solution for the suspension bridge project was developed.

Suspension bridge anchors are typically very massive in order to directly anchor the force of the main suspension cable. The concentrated cable force is transferred with radial tendons. The expected loss of cable force due to elastic shortening of the concrete required the installation of a restressable post-tensioning system which dynamically provides the necessary load carrying capacity.