5,500 tonne Osaka Dome Roof Lift

Client: Osaka Municiple Government.
Main Contractor: Taihei Dengyo Kaisha Ltd-
(Fagioli PSC Ltd. JV)

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TRANSPORTATION HEAVY LIFTING

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The Osaka Dome, completed by a joint venture of the Osaka Municipal Government and private enterprise, is a superb multipurpose, 55,000 seat indoor stadium. It will be the regular home of the Kintetsu Buffaloes professional baseball team, but it can also be reconfigured for all kinds of sporting, musical and dramatic events and for business conferences and exhibitions.

The huge 132 metre diameter and 5,500 tonne weight dome roof was fully assembled at ground level, and then raised to its final position by Taihei-PSC Heavy Lift, using 18 Fagioli PSC L600 lifting jacks, supported on specially constructed temporary towers, in a very finely monitored and controlled system.

A two stage lift was required. Initially the roof was raised 2 metres and then held, on the lifting jack system, for a period of three weeks while final additions were made. The remaining lift to 50 metres height was done in one operation.

Below Left and Right: Detail of temporary support towers above the eventual permanent hangers, with each tower supporting one Fagioli PSC L600 jack, 18 in total.

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