Korea Airlines Incheon Airport Hanger Roof Lift

Client: Korean Airlines
Main Contractor: Hanjin Heavy Industries & Construction Co. Ltd.

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TRANSPORTATION HEAVY LIFTING

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The advantages of constructing complete roof structures at ground level and lifting into final position include the following:

- Improved safety;
- Improved quality;
- Reduced site programme;
- Reduced assembly plant requirements;
- No need for temporary supports;
- Reduced overall costs.

For the new Korean Airlines Hanger at Incheon Airport, Korea the main contractor, Hanjin Heavy Industries, decided to adopt the lifting technique for the above reasons and contracted Fagioli PSC to perform the work. The hanger roof, with plan dimensions of 180 metres by 90 metres and weighing 5,540 tonnes, is one of the largest ever built.

Fagioli PSC designed, supplied and operated the jacking system, which employed two of their L600 jacks on each of the six permanent support columns. The four hydraulic power packs used for the operation were interconnected to a single computer control system situated at ground level. The use of Fagioli PSC's control system meant that no personnel were required to be in attendance at the jack locations, on the support columns or under the roof structure during the lifting operations.