

Kwang Ahn Grand Bridge, Korea 4,730te Centre Span and 2,900te Side Spans

Client: Hyundai Heavy Industries Co. Ltd.



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The centre and side span lifts on the first of two approach sections to the main suspension bridge section of the new Kwang Ahn Grand Bridge across Pusan Bay in South Korea, were awarded to Fagioli PSC Ltd. by main contractor Hyundai Heavy Industries Co. Ltd.

Each approach section consists of two 133 meter length side spans weighing 4,730 tonnes each, and a 95 meter length centre span weighing 2,900 tonnes. Each of the side spans was firstly lifted on a barge mounted temporary tower system, allowing the spans to be manoeuvred between and above their twin piers before being lowered and placed in to their final position. Using jacks



mounted on cantilever beams at the ends of the installed side spans, then allowed the lift from a transport barge of the centre span using eight Fagioli PSC L600 strand jacks powered by four diesel powerpacks, in a synchronized configuration that allowed lift speeds of 12 meters per hour. The same system was then transferred to the other approach section to perform identical lifts.