

Tuas Power Plant Blocks 3&4, Singapore Installation of Gas Turbines & Generators

Client: Hitachi Plant Corporation

Main Contractor: Mitsubishi Heavy Industries



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POWER 21



Above: Lifting of 360 MT Gas Turbine by six L100 jacks to a height of 12 metres.

Below: Gas turbine moving to its final location by lift & lock hydraulic gantry.



Above: Generator weighing 310 tonnes being lifted by the same lifting system.

Fagioli PSC were awarded the contract to install the gas turbines & generators for Tuas Power Station Blocks 3 & 4, Singapore. Approximately 150 tonne of temporary structure was designed, supplied and erected by Fagioli PSC.

Six L100 jacks each with a lifting capacity of 105 tonnes were used to perform the 12 metre lifts. A single multi outlet power pack complete with integral control panel delivered the oil to the jacks. As with Fagioli PSC power packs the design of the internal hydraulics automatically synchronises the lifting speed of all the jacks.

Once the the gas turbine and generator had been lifted to its full height, it was moved into its final position by the lift and lock hydraulic gantry.

Fagioli PSC has been involved in the installation works at Tuas Power Plant equipment since 1994, the equipment that has been lifted is as follows:

- Condensers
- HRSG modules
- Gas turbines & generators
- Steam drums