# Changi Airport Terminal 3, Singapore
# Lifting of 10 Bays of Trusses

**Client:** TTJ Design & Engineering
**Main Contractor:** Shimizu Corporation

FAGIOLI PSC
TRANSPORTATION HEAVY LIFTING

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To cope with the increasing passenger numbers visiting Singapore and to cater for the next generation of aircraft, the Airbus A380, a new terminal (T3) has been built at Changi Airport. The roof of T3 consists of 10 bays of roof trusses each with dimensions of 15m wide by 220m long and weighing 610 tonnes.

Fagioli PSC were awarded the contract for the lifting of these ten bays using ten of their L100 strand jacks mounted on five support frames. Owing to the ultra long length of the assemblies, the lifting operations required strict synchronisation with the allowable out of level of only +/-25mm between any two jacks at any time. This level of synchronisation was achieved using the Fagioli PSC control system which provides comprehensive control over every function of the jacking operation and displays all the signals on the status of the jacking system to a single operator.

The construction of one truss from commencement of fabrication to lifting to final position took between 3 and 4 weeks. The whole construction of the roof took 9 months to from start to finish.

5 pairs of L100 jacks mounted on 5 support structures

Truss lifted to 16 metres above ground

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