

Tamuin Power Station, Mexico Chimney Liner Lift

Client: Commonwealth Dynamics Inc, U.S.A
Main Contractor: Alstom Power Mexico S.S. de C.V
Owner: Termo Electricia Delgolfo



www.fagiolipsc.com

POWER 09



The 120m high concrete windshield on completion of the slipforming.

The construction of a new power station at Tamuin in Mexico's San Luis Potosi State required the construction of two 120m high chimneys. These chimneys comprised of slipformed concrete windshields with single steel liners inside. The contractor for these structures, Commonwealth Dynamics of the USA, performed the slipforming operation and selected Fagioli PSC to provide the equipment to lift the liners.

A top-down, chain-lift method was selected for the installation of the liners as follows:

1. The top section of the liner is delivered into the base of the windshield and connected to the jacking system.



View on the lifting system during installation showing the four L50 jacks and jack support arrangement.

2. The top section is lifted to allow delivery of the second beneath.

3. The second liner section is connected to the top and this assembly lifted to allow delivery of the third liner section.

4. And so on until the liner is complete.

The liner, when completed weighed 80 tonnes and required a four point lift system - Fagioli PSC provided four of their L50 jacks. Control of the jacks was from a single diesel-engined power pack located at the top of the structure.

Chimney works performed by Fagioli PSC in the past have included:

- Lifting of single chimney liners (as Tamuin).
- Lifting of three liners within a single windshield.
- Lifting of four liners within a single

windshield.

- Maximum liner weight of 400te and height of 280m.
- Lifting of internal access platforms.
- Lifting and lowering of access platforms for maintenance and demolition.

Fagioli PSC can provide any or all of the following services for chimney construction:

- Hire of lifting equipment and supervision to train your personnel to operate the equipment.
- Hire of lifting equipment, supervision and operation of the equipment.
- Design of jack support and anchor connection steelwork.
- Design and supply of jack support and anchor connection steelwork.