

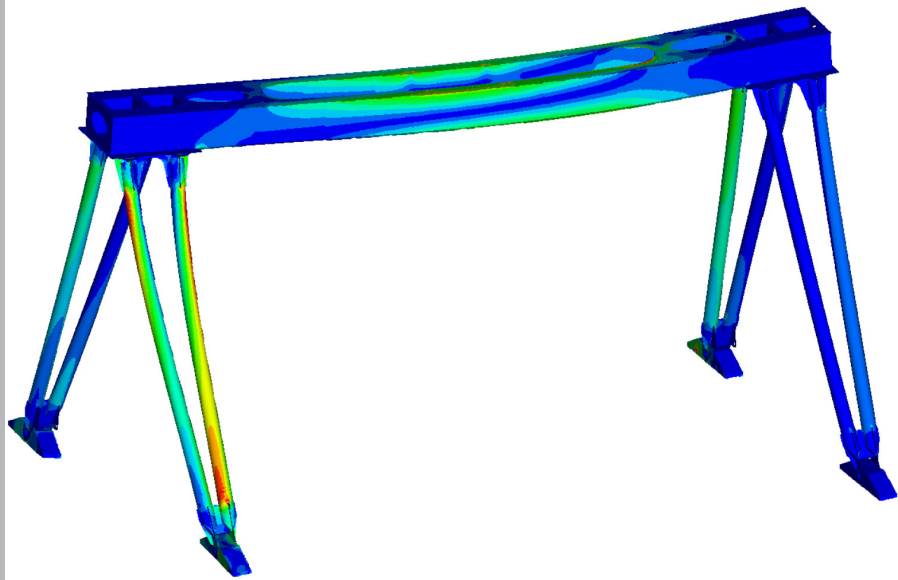
Utilities & Infrastructure



PRACTICAL[®]
ENGINEERING

FULTON HOGAN 65T MOBILE GANTRY CRANE

Practical Engineering designed and commissioned two gantry cranes that were used by Fulton Hogan to widen the EJ Whitten Bridge, whilst allowing the bridge to remain open for commuters during the major civil construction upgrade.



Practical Engineering undertook the design and analysis of the main structural members in addition to detail design of the 65t crane.

4 steering modes – long travel 2 wheel steer, long travel 4 wheel steer, crab steer and carousel steer. The crane has 2 travel speeds of 20m/min and 5m/min. The main hoist has a maximum capacity of 65t and a 5t auxiliary hoist. The cranes can perform dual lift operations with a maximum lift of 104t.

In addition, Practical Engineering has subsequently verified the successful commissioning of cranes across a number of construction projects.

Services and outcomes delivered:

- Structural Design to Australian Standards
- Design verification
- Commissioning and load test
- Manufacturing Drawings

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