MICHAEL KING

REGISTERED STRUCTURAL ENGINEER

EDUCATION & QUALIFICATIONS

- Bachelor of Engineering Civil and construction (Hons)
- Member of Institute of Australia MIEAust
- Chartered Professional Engineer CPeng
- Registered Professional Engineer (QLD) RPEQ 25175

VALUES

- Working with integrity
- Developing technical and pragmatic solutions
- Understanding client expectations
- Hard working

EXPERTISE

- Analysis and design of complex structural systems (existing and new) to provide efficient design solutions
- Design and Analysis (including fatigue) of industrial structural materials handling equipment including conveyor systems, ship loaders & stacker reclaimers
- Design of complex portal frame structures supporting gantry cranes and other mechanical equipment
- Effectively communicating with site project management teams; managing technical queries, non-conformance reports, and requests for information

CAREER HISTORY

REGISTERED STRUCTURAL ENGINEER

Tungsten Structures | January 2021 - Present

STRUCTURAL ENGINEER

Tungsten Structures | February 2019 - January 2021

STRUCTURAL ENGINEER

Aspec Engineering | January 2015 - February 2019

KEY PROJECTS

JILALAN WAGON OVERHAUL FACILITY - $36M 7,500 SQM

The facility is used by Aurizon to maintain their fleet of rail carriages, including repairing and repainting. It consists of a 13.7m high bay portal frame, complete with two 5 tonne cranes, used to assist in operations of the repair facility, as well as a 20 tonne crane used to lift and move full train carriages into the warehouse for maintenance. The facility also consists of two other 5 tonne portal frame mounted cranes, as well as a variety of slab mounted cranes. Some of the crane runway beams span up to 12.5m. The primary building structure is steel portal framed, with full height cladding around the perimeter. The slabs are conventionally reinforced and consists of various pits; as well as magnets within the slab that direct the Robotic transport system. The warehouse is supported mostly on pad footings, with bored piers in some local high load areas.

BAC DHL EXTENSION - DHL WAREHOUSE EXTENSION - $9M 6,000 SQM

The facility contains a 6,000sqm warehouse, 600sqm office and 400sqm awning. Also delivered 3,800sqm of external pavements, pump shed and sprinkler tank slab. The clear spanning portal frames reached 49m.

MANGO HILL STATE HIGH SCHOOL, MANGO HILL - $40M 15,000 SQM

Stage 1 structural works incorporates seven buildings, a covered main entry forecourt and a network of covered link walkways and external lifts and stairs. The building work includes a 3 storey classroom block, 2 storey administration block, 2 storey science centre, and single storey IT centre, canteen, amenities, ancillary services and a 2,500sqm indoor sports hall.

KOMATSU WACOL- $25M 21,300 SQM

Komatsu Distribution Centre including 16,275sqm warehouse and 4,900sqm two storey offices and suspended walkways. Delivered this industrial project with 20.5kg/sqm of structural steelwork and a further 5.2kg/sqm of purlins and girts. This includes the heavier allowances for a 30t gantry crane operating along a 115m length of building, 3,765sqm of suspended steel framed floor and 525sqm of suspended composite framed floor.

(Further information or more projects available upon request)

TUNGSTEN STRUCTURES