

Gencorp, 'The One' Residential Project Hurstville, NSW

THE CLIENT

Gencorp is a diversified builder-developer and since 2013, has completed a block of 32 apartments, a four-storey commercial building, and is currently building a block of 79 apartments.

THE DEVELOPMENT

Gencorp is currently developing a residential apartment project, The One, in the southern Sydney suburb of Hurstville. The project consists of 100 apartments across 15 storeys and a four-level basement. The project will feature panoramic views of the Sydney CBD, a lush green sky garden and a grand entry lobby. Currently under construction, the project is targeting completion in October 2017.

THE PROBLEM

Gencorp had a highly technical crane requirement that was not only complicated by an irregularly shaped site, physical constraints and height restrictions but also its location; not only was the project located on a busy corner site, it was also located in close proximity to a heavy-rail line and major power lines.

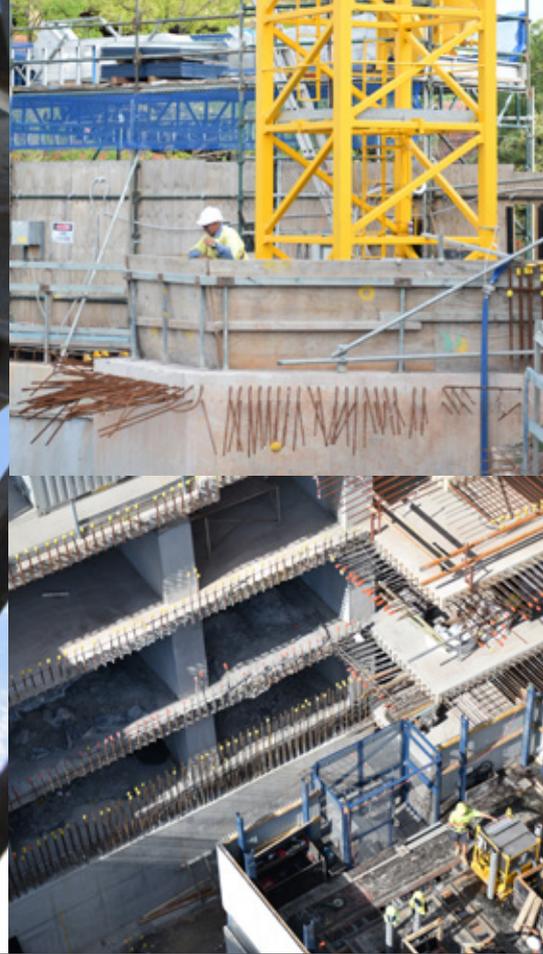
As such, a diverse range of statutory approvals were required from the Civil Aviation Safety Authority (CASA), RailCorp and Energy Australia.

Furthermore, architects had also not allowed for a crane installation point in their early design drawings.

OUR SCOPE

- Crane and base design customisation
- Equipment procurement
- Statutory and civil aviation approval
- Erection planning and verification
- Site layout planning
- Safety-in-design management
- Dismantle planning





HOW WE SOLVED THE PROBLEM

Over a 12-month process, we worked closely with the Gencorp construction and design team to customise a materials handling solution.

We identified the site constraints and then determined that the only type of crane that could fit within the site was a customised Italian TLX-1350 crane. However, the TLX was only designed to free stand up to 15-storeys. So, in order to increase the TLX's capacity, we sourced separate tower sections and designed a specialised transition piece to fit them together into a new 19-storey crane.

As such, the customised crane would be able to service the entire site whilst remaining within civil aviation requirements.

We also managed the custom assembly of the crane offsite, managed the delivery and installation of the crane and verified its install upon completion.

Construction is now on-time and on-budget, with project completion currently being targeted for October 2017.

GETTING INVOLVED EARLY

We were commissioned by Gencorp early in the design process and identified a number of major design complications that could have significantly impacted Gencorp's lift requirements on an already complex site.

One such complication was a potential clash between the crane's base bolts and the project's pile designs.

Through early engagement, we were able to adjust both the design of the customised crane base and the project's foundation piles in order to avoid a clash, which would have otherwise occurred when it came to crane installation.

"HLD is our one-stop-shop for all of Gencorp's crane requirements across our development portfolio. Knowing their team was only a phone call away, gave me the confidence to install a 60-metre crane in a highly-complicated construction site."

Craig Bennet, Gencorp Project Director, The One

