

Twin Chain Hoist

Client: Internal Project



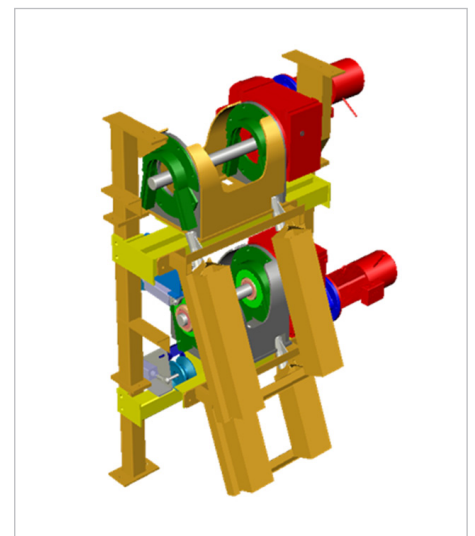
ideas* designed and manufactured a bespoke twin chain hoist for the Coke Vacuum Crane at Alcoa's Point Henry site.

The hoist was designed to raise and lower the vacuum tubes used to transfer the fluid coke used to protect anodes during the baking process.

The twin chain hoist features a custom designed slack chain detection system that can apply load to the chain to maintain tension. It was designed and tested for a 1 tonne safe working loading with an overall C6 crane classification, meeting all AS1418.1 requirements.

The 3D design allowed design issues and interfaces to be easily evaluated by all stakeholders.

This was crucial for the design given the limited space available in the installation area. It also allowed installation and commissioning to occur with minimal issues and interruption to production.



Rendered 3D model of the final design