

Case Study



Machinery Jacked In Workshop

Product Development: Jacking Plates

A **mine operator** required **jacking plates** to safely distribute loads when jacking heavy mining equipment, particularly in **field breakdowns** or **workshop areas** without a rated slab.

Engineering Challenges & Solutions

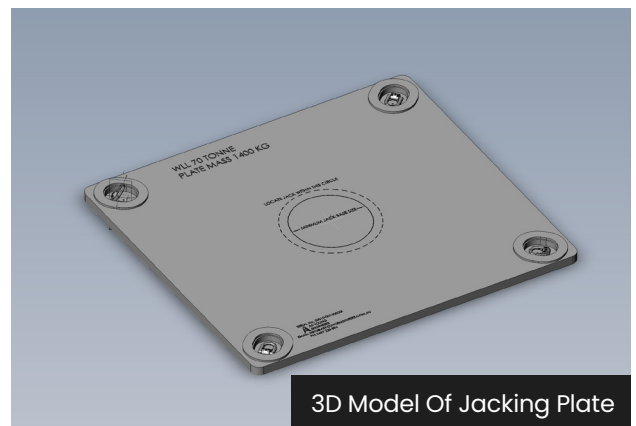
- **Large plate size required** due to ground bearing capacity, but positioning was restricted by machine tires
- **Each plate weighed over 1000kg**, requiring easy handling via lifting equipment.
- **Recessed lifting points** were integrated, allowing rubber-tired machines to safely drive over them.
- **Optimized placement** enabled plates to be positioned directly under machine jacking points while ensuring safe load distribution.



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Outcome

Through **collaboration with the client**, AE Young Engineers designed, engineered, and manufactured a **safe and efficient jacking plate solution**, enhancing **maintenance safety** for heavy mining equipment.



3D Model Of Jacking Plate

