

ADVANCED ANALYSIS AND ENGINEERING

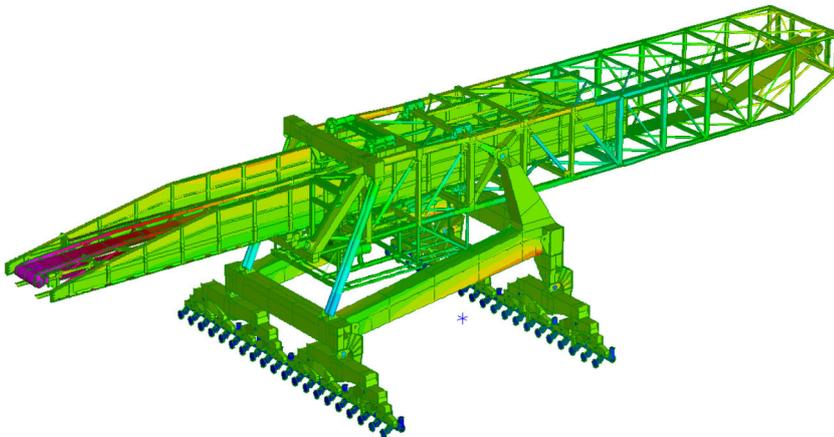
What we do

SIE are specialist Structural Engineers providing services to the mining, ports and heavy industrial infrastructure sector. We use our structural knowledge and experience to provide our clients with superior technical and business orientated outcomes.

SIE utilise a variety of structural analysis software tools including geometric modelling, frame analysis and advanced finite element analysis. Effective use of these tools allows us to achieve:

- A more detailed understanding of structural behavior in complex structures and structural elements through simulation methods.
- A more accurate method of assessment for strength and safety of structures, whether existing or in the design phase.
- The ability to optimize design of structures, or remediation/strengthening requirements by the use of parametric investigations or what-if scenarios.
- Accurate re-creation of failure conditions of structures enabling identification of root causes and contributors to structural failures.

When working with structures, use a specialist Structural Engineer



Benefits to our Clients

In the right circumstances and with appropriate application, advanced analysis techniques can provide significant benefits to owners of structures. Our clients benefit from our experience in a wide range of static, dynamic, linear and non-linear modelling and analysis of structures by:

- Having structural engineers with high levels of experience working on your project such that complex and unconventional structural components are appropriately assessed to be able to determine their strength and safety status.
- The assessment of a structure is being conducted to a level of detail commensurate with its complexity.
- Being able to visualise both the issue and the solution with highly graphical and illustrative pictorial outputs from FE packages and being able to utilise the models for multiple purposes and investigations/assessments.
- Being able to investigate structural failures to the necessary degree of accuracy and detail to reliably identify the contributing factors and the requirements for prevention of a recurrence.

Use the contact details below to find out how SIE can assist your business

Contact Details

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