

Steg Engineering has over 26 years of operational experience in Machining, Fabrication and fitting and has a proud history of service to the engineering and manufacturing sectors. Steg now offers a *professional engineering design service* led by our Managing Director Aran Fitzgerald.

Aran has been working as a professional engineer since graduating with a Masters from Monash University in 2004 and has worked locally in the offshore engineering consulting field and in Switzerland at Alstom Power for 8 years. At Alstom, Aran worked on the design and operation of industrial gas turbines and went on to manage the technical sales for 7 gas turbines power units in the field. He is an expert in Finite Element Analysis and Computational Fluid Dynamics and has a lot of experience working within ISO9001 and stringent safety under ISO45001/AS4024 including risk-assessment and hazard identification.

**Our Service:**

Steg Engineering is able to offer a *complete service* from problem description to final product. Our engineers are able to perform the necessary risk-assessments and hazard-identifications and design according to Australian Standards. Finally we offer the in-house manufacturing capability to ensure that Steg Engineering is your *One-Stop-Shop for Engineering*. We offer amazing value to our customers

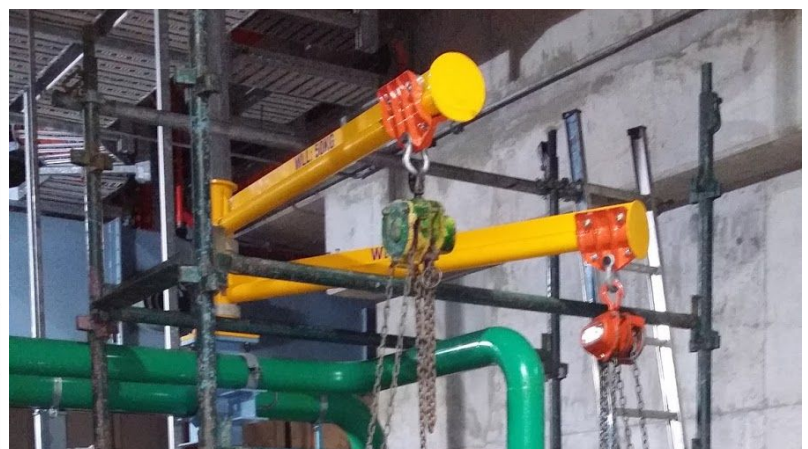
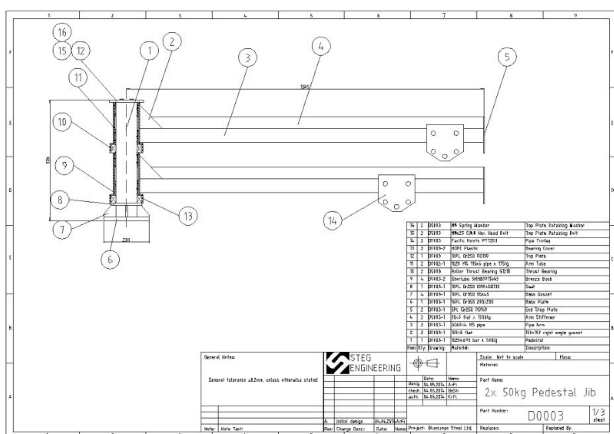


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**Case Study:** Bluescope Steel twin boom jib crane

Manual handling during maintenance of a twin filter arrangement was a problem due to the weight of the filter assemblies. Bluescope required a twin boom crane to ensure that the filter maintenance could be performed with a single employee.

Steg Engineering provided a *complete service* including engineering design to AS1418, manufacturing drawings and the manufacture of the final product, including a site inspection and engineer's sign-off. Finally, all documentation was provided to comply with ISO9001 quality systems. The complete package was able to be offered at *significant cost saving* compared to contracting the services separately.



## Case Study: Andritz Separation Centrifuge Workshop Trolley

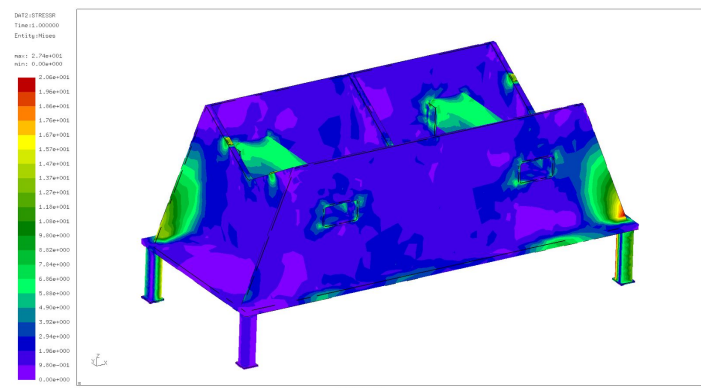
### The Problem:

Andritz requires all equipment in use in their workshops to be certified to OHSE standards. It was no longer accepted to make workshop jigs and stands without engineering design to Australian Standards. Andritz needed a new stand to allow the assembly and disassembly of their 3000kg separators at an ergonomic working height.

### The Solution:

Steg Engineering's professional engineers designed a workshop trolley which conforms to the Australian Standards for safety of machinery (AS4024), which ensures that the risks associated with the use of the trolley throughout its life are mitigated in the design phase. The result being a trolley with an inherently safe castor system that locks once the load is applied, and a trolley of the correct dimensions to handle the separators in various states of assembly/disassembly without a risk of toppling.

*Steg Engineering validated the design with FEA and final product.*

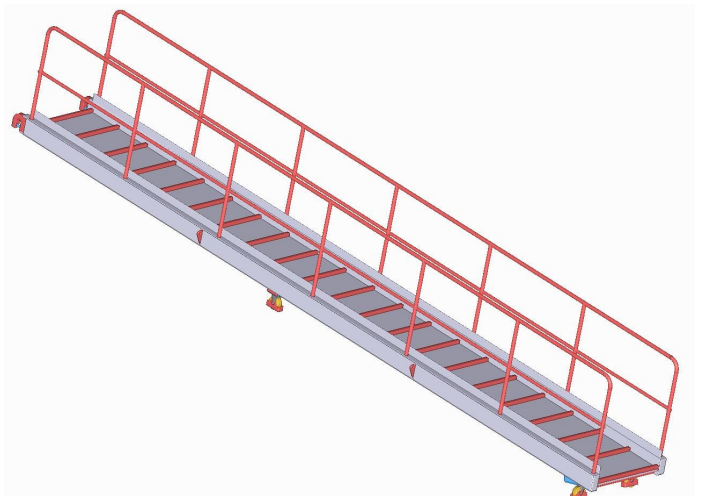
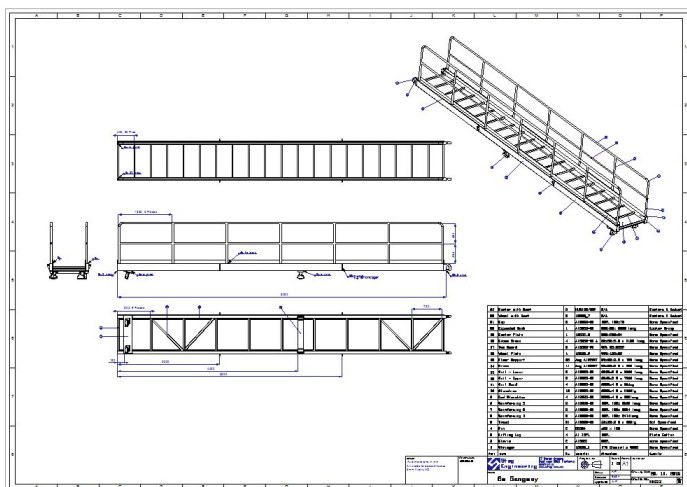


## Case Study: DMS Maritime 8m Gangway

### The Problem & Solution:

DMS Maritime requires a gangway to provide egress to and from a new naval training vessel. The maximum angle allowed in the standard is 30° dictating an 8m gangway length. The new gangway is to be designed, incorporating improvements to maintenance and safety. Steg Engineering designed a new 8m gangway to comply with the latest Australian and international standards including strength requirements, improved attachment point strength, and safety guarded castors and wheels.

*Steg Engineering supplied a conformant design complete with strength calculations, manufacturing drawings and testing / engineers sign-off and conformance plate attachment of the final product.*



Trusted by:

Compliant:

