



NEWSLETTER – January 2019



Happy New Year to all of our clients and friends across Australia. We trust that this year will be a safe and enjoyable one. We also hope that this year brings prosperity and growth over the various sectors we operate in and we're very much excited in the prospect of developing our relationships and assisting our clients achieve their project goals. For us, 2018 was a year with some ebbs and flows, like all businesses. Our teamwork and leadership shone through and we finished the year on a high with the signing of a significant contract for a defence infrastructure scope of work, which we can announce in the coming weeks.

Ingenia Young Gun Receives Defence Young Achiever Award

Since 2008, AIDN National has conducted the Young Achiever Award (YAA) to recognise individuals who can be the future industry leaders. The award is held at the AIDN Chapter level, and then each Chapter winner will automatically compete for the National YAA. The Young Achiever Awards are open to all members of the defence support industry, aged 30 years and under. Winning the AIDN-SA YAA and/or the AIDN National Young Achiever Award recognises the efforts and demonstrates the achievements and the potential to a nominee's colleagues, clients and future employers. Ingenia Mechanical Designer, Aaron De Visser, was nominated by Ingenia for work he is doing in the 3D spatial area for mechanical design on defence projects. Aaron was lucky enough to take out the runner up award, worth \$1,000, and beat a very impressive field of the sector's future innovators and leaders. Well done Aaron, we are proud of your achievement! Pictured here is Aaron (left), Jade Spicer – Phil Hoffman Travel and Daniel Halls – Ingenia GM.



Emerging Refrigeration Sector Work

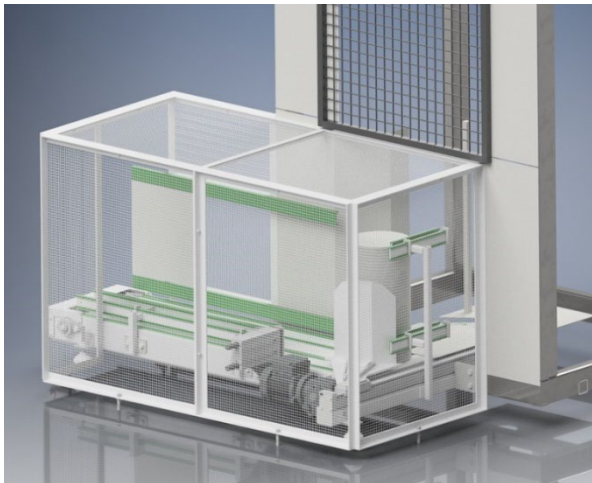
Ingenia is providing an increasing level of support into the refrigeration sector with various engineering and design solutions. Our valued clientele in this area have entrusted Ingenia on the following scopes;

- Pipe Stress Analysis
- Secondary Pipe Support verification
- Design of chiller skid
- Exhaust Fan site inspection
- Detailed design / FEA of ammonia pressure vessels.

Project – Valspar HSE Hazard Mitigation Redesign



Ingenia was engaged by global paint manufacturer Valspar to upgrade a lid loading system as per Technical Specification AR 108045 at their Churchill Road facility in Kilburn, South Australia. We conducted a site inspection to solve an ongoing HSE issue related to the feeding of lids into a pail lidding machine. The system required an operator to manually select a stack of lids from a pallet and load them into the machine. There were various manual handling, ergonomic and pinch / crush hazards relating to the process. The challenges including functionality, maintaining productivity, space constraints and the reduction in the operator requirement in the continuous lid loading process. The successful outcome came by way of a design of an automated lid handler that fit snugly into the limited envelope that operated on pneumatics and an electric motor.



Future Subs Consortium

Ingenia was fortunate to have secured a meeting with Naval Group in Adelaide recently to discuss our capabilities in the defence infrastructure sector and how this related to the various scopes of work coming up on the future subs program. The outcome was an opportunity to combine capabilities with our close industry partners. Ingenia is working with three SMEs under a consortium arrangement to deliver integrated scopes of work similar to this. Currently the consortium is working on developing a proposal for Naval Group on test cell facility and infrastructure projects. The consortium has capabilities in design, engineering, fabrication, automation and remote condition monitoring. Ingenia is project managing the consortium and is providing the design and engineering capability.



Who's The Boss??



Daniel joined Ingenia in 2011 as a Mechanical Engineer and was promoted to Project Engineer shortly afterwards. In this position he was involved in several major scopes of work in Food and Beverage and Raw Materials Handling.

In 2016, Daniel took over the role of General Manager, and have since been involved in the coordination of work packages and contract management. He is a very capable Mechanical Engineer with diverse experience ranging from Project Management to Detailed Engineering Design in sectors including Food and Beverage, Materials Handling, Processing and Industrial.

Key experience includes machine and process design, structural steelwork design, silo and hopper design, effluent treatment, pneumatic pumping, failure analysis, risk assessments, HAZOP Facilitation, and project tender and contractor management including site safety.

Daniel has eye for detail, is an exceptional problem solver and interacts well with clients on technical and commercial levels.

Daniel holds a Bachelor of Mechanical Engineering (Hons), an Advance Diploma of Project Management, Advanced Diploma of Leadership and Management, and is also a HAZOP Leader.

Some of the projects and scopes that Ingenia have completed this quarter

- *Pipe stress analysis for a refrigeration client*
- *Shop drawings for a water infrastructure project for a fabrication client*
- *Design review, calculations and GA drawings for a boiler feed water tank*
- *A high density residential access site survey at Cultana Defence Base in SA.*
- *Thermal plant room structural analysis and design verification at RAH*
- *Structural design analysis & validation of cooling tower frame and RCC concrete slab.*
- *HAZOP on Klein Point Hammer Mill Grate Replacement*
- *Finalised a turnkey Lid loading Machine for a local manufacturer*
- *Detailed design and engineering on a glass redirection chute*

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Defence Teaming Centre

Connecting • Developing • Advocating

Ingenia are new members of the DTC