



# Piping Engineering

At Delonix Solutions, we provide expert Piping Design services to our clients in the Resource, and Heavy Industry sectors. Our team of experienced professionals has the expertise and knowledge to deliver innovative and cost-effective solutions for piping design and analysis.

## P&ID DEVELOPMENT

Delonix Solutions is highly proficient in developing P&IDs, which serve as essential tools for summarising processes, delineating the relationships between equipment, pipes, valves, and instruments, and demonstrating the control strategies employed to operate the process. These diagrams are invaluable for creating lists of lines, valves, and instrumentation, providing a comprehensive overview essential for the management and operational oversight of any process system.

## PIPING LAYOUT DESIGN

Delonix Solutions' piping layout design is tailored to optimise both pumped and gravity-fed systems through innovative designs. Utilising advanced 3D modeling, we produce precise spool drawings directly with Tekla software, streamlining the process by skipping the traditional step of isometric drawing creation. This efficiency not only saves time but also enhances the accuracy of our fabrication and construction plans, providing clear, actionable deliverables for our clients.

## PIPING SYSTEM DESIGN

At Delonix Solutions, we specialise in the design of piping systems for slurries (viscous and settling), solutions and compressible gasses, utilising cutting-edge software for comprehensive network analysis. Our expertise enables us to conduct thorough evaluations of in-plant and overland pipelines, ensuring each design is optimised for efficiency and aligned with the best equipment choices. We select pumps, fans and compressors not only for their performance but also for their impact on capital and operational expenditure, aiming to meet the specific financial requirements of our clients. Our approach ensures that each piping system is cost-effective, sustainable, and tailored to meet the precise needs of the project at hand.



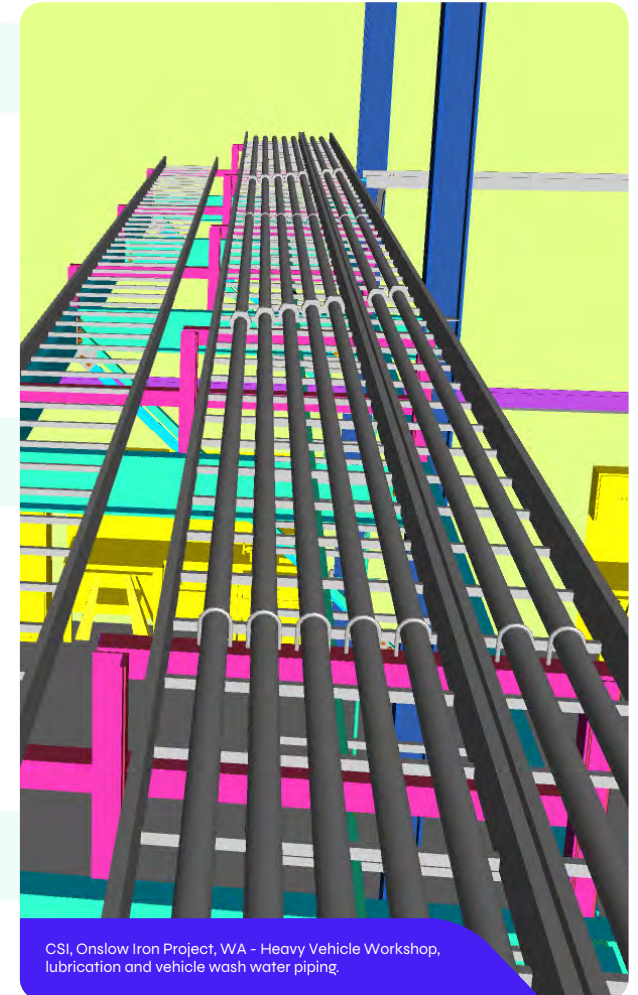
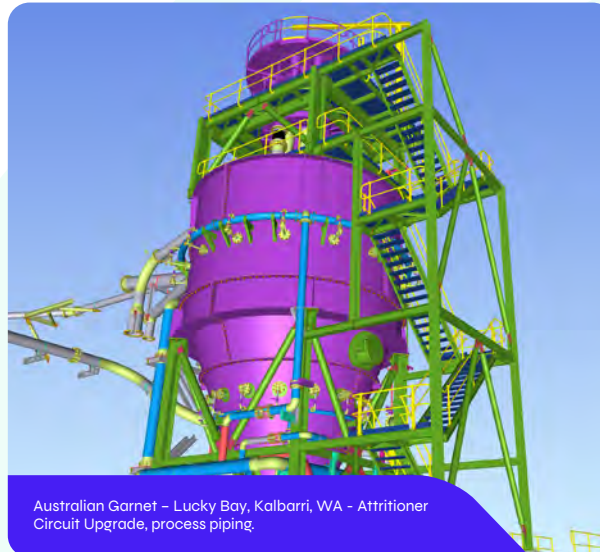
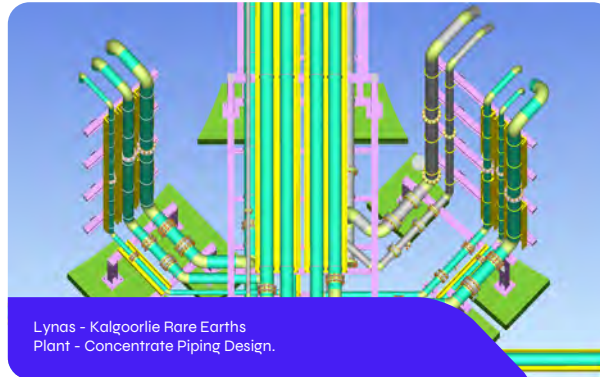
## PIPE STRESS ANALYSIS

Delonix Solutions prioritises the structural integrity of piping systems through pipe stress analysis. Our approach includes the strategic design and selection of supports to ensure stability and longevity. Leveraging our proficiency with pipe stress analysis software, we conduct analyses that adhere strictly to Australian and ASME standards, providing our clients with the confidence that their piping infrastructure is designed to withstand operational stresses and maintain safety.

## PROJECT EXPERIENCE

As a testament to our commitment to excellence and adaptability to the distinctive requirements of the Mining, Resourcing, and Public sectors,

Delonix Solutions has earned a strong reputation in Civil Engineering. We are your reliable partner in accomplishing project goals efficiently and responsibly, empowering clients, including renowned industry leaders such as Pilbara Minerals, Northern Star Resources, Lynas Rare Earths, First Quantum Minerals, and Atlantic Lithium, to operate with enhanced efficiency, safety, and sustainability.



### GOT A PROJECT? CONTACT US.

Contact **Delonix Solutions** today to learn more about our Piping services and how we can help you achieve your goals.

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