

STAR TANKER HATCH ACCESS

TANKER ACCESS SOLUTIONS

- STAR TANKER HATCH ACCESS SOLUTIONS ARE MANUFACTURED FROM DURABLE YET LIGHTWEIGHT ALUMINIUM ALLOY
- ROBUST CONSTRUCTION WITH CHECKER-PLATE DECK SURFACE FOR SECURE FOOTING
- THIS INNOVATIVE UNIT FEATURES A ROBUST PNEUMATIC OR HYDRAULIC DROP STAIR SYSTEM
- INTEGRATED PROTECTIVE HOOP
- SUITABLE FOR ACCESSING BOTH TANKER HATCHES AND ISO CONTAINERS
- EACH UNIT FITTED WITH A COMPLIANCE PLATE TO SUPPORT WHS REQUIREMENTS
- BACKED BY A LIFETIME STRUCTURAL WARRANTY



AUSTRALIAN
OWNED & OPERATED



27+ YEARS IN
BUSINESS



STRUCTURAL
LIFETIME WARRANTY



MANUFACTURED
TO AS/NZS STANDARDS



CUSTOM DESIGN
AVAILABLE



STAR TANKER HATCH ACCESS

TANKER ACCESS SOLUTIONS



PNEUMATIC & HYDRAULIC CYLINDER

High-performance cylinders ensure the smooth lowering and raising of drop stairs.



ERGONOMIC ACCESS STAIRS

Optimised stair angle with slip-resistant treads for controlled access.



D BUMPERS

Durable protective strips reduce ground impact and protect the platform base.



SAFETY HOOP

Integrated hoop guard and working platform enclose the hatch area, providing safe standing space for operators and equipment.



FITTED COMPLIANCE PLATE

Supports WHS requirements and site compliance.

OPTIONAL



ANTI SLIP BULL NOSING



POWDER COATING



D BUMPERS



SCAN ME FOR MORE

As a cornerstone of Australia's rail logistics network, this premier operator specialises in the maintenance and overhaul of heavy locomotives and freight wagons. Managing complex engineering tasks across a national footprint, they ensure the reliability of critical transport infrastructure where high safety standards and technical precision are paramount.

PROJECT USE-CASES

LOCOMOTIVE INDUSTRY COMPANY

PROJECT FOCUS

A versatile height-access solution was required to support repair and maintenance operations across four major workshop locations in Australia. This locomotive industry company approached Star Aluminium to address several technical challenges:

- ⊗ Safe access was needed for technicians to perform repairs on locomotives and wagons of varying heights.
- ⊗ The project required a solution that could be standardised across multiple sites to ensure consistent safety protocols.
- ⊗ Providing secure fall protection for workers accessing the top sections of rail vehicles was a primary requirement.
- ⊗ Adaptable equipment was required to handle different maintenance scenarios, from structural repairs to routine inspections.
- ⊗ Improving the overall speed and safety of the maintenance workflow was a key objective for the company.

THE COMMERCIAL ADVANTAGE

Implementing these adjustable access platforms resulted in measurable operational benefits for the locomotive industry company:

- ⊗ Workplace safety has been significantly enhanced, with the enclosed guardrail system minimising the risk of falls from height.
- ⊗ Maintenance productivity increased as technicians can now access various rail vehicle types using a single, versatile piece of equipment.
- ⊗ The standardisation of safety equipment across four national locations has simplified training and equipment management.
- ⊗ Faster repair cycles for locomotives and wagons lead to reduced downtime and improved fleet availability.
- ⊗ The durable, industrial-grade construction ensures a high return on investment and long-term reliability in tough and busy workshop environments.



THE ENGINEERED SOLUTION

Star Aluminium delivered the Star Adjustable Tanker Access Platform, specifically configured and engineered for the technical demands of the rail industry:

- ⊗ The adjustable height mechanism allows a single platform to service multiple types of locomotives and wagons.
- ⊗ An integrated enclosed hoop guardrail system provides 360-degree fall protection for workers on top of vehicles.
- ⊗ The platform is engineered with a high-strength frame to maintain total stability during heavy-duty maintenance tasks.
- ⊗ Specialised safety gates and non-slip surfaces are included to ensure secure entry and exit for personnel.
- ⊗ The mobile design allows the units to be easily positioned within different bays across the workshop floor.





Operating as a critical link between sea and land transport networks, this specialist manages large-scale dry and liquid bulk cargo operations at major port facilities. With high-volume loading processes executed daily, the organisation requires robust infrastructure and uncompromising safety standards to support the efficiency of global supply chains.

PROJECT USE-CASES

MARITIME TERMINAL OPERATOR

PROJECT FOCUS

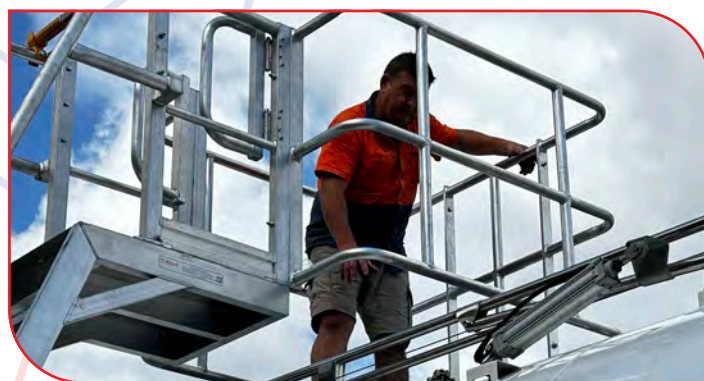
A flexible height-access solution was required to facilitate safe operations on top of tanker trucks at the port facility. This maritime terminal operator approached Star Aluminium with several specific operational goals:

- ✘ A reliable method was needed to reach tanker hatches for inspection and loading tasks.
- ✘ The project required a platform with a significant height-adjustment range to accommodate different truck sizes.
- ✘ Establishing comprehensive fall protection for personnel working on elevated vehicle surfaces was a primary goal.
- ✘ The solution had to be durable enough to withstand the tough environment of a busy maritime terminal.
- ✘ Improving the overall speed and safety of the tanker servicing process was a key objective for the facility.

THE COMMERCIAL ADVANTAGE

Implementing this adjustable tanker platform resulted in significant operational benefits for the terminal facility:

- ✘ Workplace safety standards were elevated, providing staff with maximum security during elevated tasks.
- ✘ Operational flexibility improved as a single platform can now service various truck heights within the fleet.
- ✘ The high level of satisfaction with the product has led to plans for purchasing additional units to expand site capacity.
- ✘ Faster and safer access to tanker hatches reduces vehicle turnaround times and increases terminal throughput.
- ✘ This high-quality engineering supports the facility's commitment to maintaining a secure and productive industrial work environment.



THE ENGINEERED SOLUTION

Star Aluminium delivered the Star Adjustable Tanker Access Platform, specifically engineered for industrial versatility:

- ✘ This platform offers an extensive adjustable height range of 3.0 metres to 4.5 metres.
- ✘ An integrated safe hoop guardrail system provides 360-degree fall protection for operators on top of the tankers.
- ✘ The robust design ensures a perfect fit for a variety of tanker truck configurations used in bulk transport.
- ✘ High-strength aluminium construction provides a stable and secure working environment while remaining easy to position.



Recognised as a top global provider of mining and infrastructure solutions, the organisation specialises in the manufacture and supply of explosives, blasting technology, and geotechnical monitoring tools. Beyond industrial products, they deliver advanced digital services for the sustainable mobilisation of earth resources. Supported by an extensive fleet of tankers and isotainers, the company ensures the reliable delivery of critical materials to projects worldwide.

PROJECT USE-CASES

MINING AND INFRASTRUCTURE SOLUTIONS PROVIDER

PROJECT FOCUS

A specialised engineered solution was required to improve safety during tanker loading and inspection. Several key operational goals were identified for this project:

- ⊗ Safe access was needed for operators to reach the top of tankers and access hatches securely.
- ⊗ The project aimed to integrate a new height-adjustable system with an existing fixed platform on site.
- ⊗ A primary requirement was to allow trucks and isotainers to move freely underneath the access equipment.
- ⊗ The solution needed to provide a stable and enclosed environment for workers at height.
- ⊗ Modernising the existing infrastructure with automated safety features was a core focus of the request.



THE ENGINEERED SOLUTION

Star Aluminium designed and manufactured a custom hoop system with integrated stairs, utilising advanced pneumatic technology:

- ⊗ The system features a safety hoop with stairs that attach directly to the site's fixed platform.
- ⊗ Pneumatic cylinders allow for smooth and precise height adjustment of the safety hoop.
- ⊗ The design allows vehicles to position themselves underneath the hoop before the platform is safely lowered.
- ⊗ The hoop drops down onto the tanker top, creating a secure and 360-degree fall protection barrier.
- ⊗ This engineered solution provides a stable walking surface and easy access to hatches for the operator.

THE COMMERCIAL ADVANTAGE

Implementing this pneumatic hoop system provided significant operational benefits for this mining solutions provider:

- ⊗ Workplace safety increased by providing a fail-safe fall protection system for tanker operators.
- ⊗ Operational efficiency improved through the use of quick-adjust pneumatic cylinders, reducing vehicle turnaround times.
- ⊗ The ability to integrate with existing on-site platforms saved on the high costs of new infrastructure.
- ⊗ Standardised safety protocols were strengthened, reducing the risk of accidents during critical loading tasks.
- ⊗ This high-quality engineering ensures long-term reliability and supports the provider's commitment to sustainable and safe operations.