

IMAGINE THE POSSIBILITIES

...If construction modules could be delivered 24/7



HYDRO DECK

Combining the very best in engineering design, mooring analysis and high-end fabrication, AG&P ALE Ventures Pty Ltd delivers an innovative solution to the offshore market to solve major logistical challenges and remove supply chain bottlenecks.

The first of its kind, the Hydro Deck has been designed and built through the joint venture between AG&P, a leader in integrated industrial process outsourcing and ALE, one of the world's leading engineering and heavy lift companies.

The Hydro Deck is a transition pontoon that works in conjunction with modular offloading facilities (MOF) for on-shoring modules and infrastructure. Its innovative design enables load-in operations for combined loads of up to 17,000 metric tonnes, regardless of tidal conditions or port facilities.

HYDRO DECK OVERVIEW

A mobile port solution, designed to serve as a bridging platform from vessel to quayside, the Hydro Deck is utilised for global projects faced with restricted offloading delivery windows due to unpredictable high tidal variations and where local port facilities are limited by scale or capability for a project's specifications.

The Hydro Deck transports and offloads fabricated modules in adverse conditions, significantly increasing the availability of delivery windows. Its unique tidal buoyancy adjustment system provides clients with a greater range of ro-ro vessels and barges, improving both availability and cost competitiveness. This feature also allows the MOF to be built at higher elevations, therefore reducing the gradient to site.



The landmark innovation can be provided on lease, fully crewed with expert heavy lift operators, and, on completion of the load-in phase, it can be towed away, reducing upfront capital expenditure and environmental footprint.

The Hydro Deck offers our clients continuous offloading anywhere in the world, 24/7.

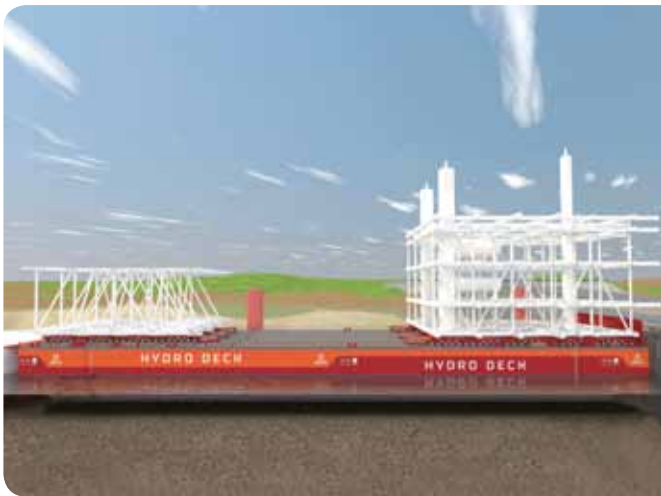


HYDRO DECK BENEFITS

- Eliminates limitations imposed by extreme tidal ranges, allowing 24/7 unloading of critical cargo and modules, maintaining project schedules
- Compensates for poor or non-existent heavy lift dock facilities
- Allows early release of transport vessels, minimizing expensive sea-charter/demurrage costs and supply-chain bottlenecks
- Offers greater operational reliability, reducing downtime and costly delays to project timelines
- Enables operation in sensitive areas with its environmentally friendly ballast compensation system
- Reduces upfront capital costs and environment footprint caused by building a permanent structure for a temporary requirement and can be towed away upon scope completion
- Provides a fully crewed and leased solution for fast-track projects which require swift yet safe offloading around-the-clock
- Offers in-built safety features and is designed to stay in one location for its project duration, significantly reducing both the personal and equipment risk

TECHNICAL SPECIFICATIONS

1. Receiving, roll-on/off, ballasting and mooring
2. Designed to work with 8m+ range of tidal variations
3. Can be operated 24/7
4. Air pressure tidal buoyancy adjustment instead of seawater pumping
5. Ballasting: 50% redundancy, 2 pump rooms
6. 140m length x 40m width x 11m depth
7. Dead-weight capacity: 22,000 MT
8. Deck capacity: 20te/m²
9. Certified to operate in Australian Territorial Waters
 - Fabricated under DAFF Biosecurity requirements
 - Compliant with Australian AS 3000 and other design and use-of-materials rules
 - Designed and fabricated under Lloyd's Register Class certification to the highest safety and quality standards



AG&P ALE Ventures offer the Hydro Deck and its team of specialists as part of the full service solution available to clients worldwide.

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