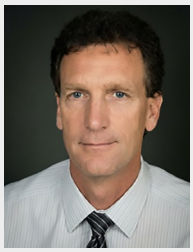
Al Jaber Heavy Lift

Safely onwards and upwards

HIGHLIGHTS

EXCELLENCE DELIVERED FROM THE UAE CAPITAL



WELCOME

We present these Highlights at a defining moment in AJHL's journey, driven by expansion, strategic investments, and a clear vision for our future as a trusted partner and single source operator for critical infrastructure and heavy logistics projects.

AJHL is extending its footprint beyond regional boundaries, laying the foundations of a truly international multimodal logistics network. With every project we deliver, we reinforce our reputation for engineering excellence and reliability across land, sea, and specialized transport corridors.

Our commitment to strengthening in house capabilities is reshaping the scale at which we operate. We are investing significantly in expanding our fleet, advancing the skills of our workforce, and deploying a state-of-the-art fleet management system that will enable us to support more complex, technically demanding, and geographically diverse projects.

We are also enhancing our market leadership by engaging with global industry leaders at key forums and conferences hosted in the UAE. These platforms allow us to showcase our capabilities, exchange insights, and align our growth ambitions with the evolving needs of the heavy logistics sector.

Together, these advancements position AJHL to capture a greater share of emerging markets where there is rapid growth in infrastructure development, industrial expansion and energy investments. Demand for integrated logistics solutions continues to rise across the Middle East, Africa, and Asia, and we are addressing these opportunities by strengthening our operational hubs, deepening our technical competencies, and building agile project teams.

Our relationships with EPC contractors, energy companies, and government entities remain central to our strategy. Their trust motivates us to innovate, push boundaries, and deliver solutions that set new benchmarks for safety, efficiency, and performance.

As we grow, we remain committed to being the partner of choice for clients undertaking ambitious, complex projects around the world. The dedication of our employees continues to be the driving force behind our progress. Their passion and professionalism give us confidence as we progress through this phase of AJHL's evolution.

Looking ahead, we see a future in which AJHL plays a defining role in global heavy logistics, powered by a stronger fleet, broader geographic reach, and an unwavering commitment to excellence.

Alexander Mullins

General Manager - Al Jaber Heavy Lift

FRONT COVER IMAGE: ExcellenceDelivered from the UAE Capital.
See page 4-5 for the full story.

IN THIS ISSUE

CROWNING A UNITED ARAB EMIRATES NATIONAL ICON

Engineering mastery meets architectural ambition in the safe installation of all 82 domes of Abu Dhabi's Sheikh Zayed Grand Mosque

The Sheikh Zayed Grand Mosque, ranked 3rd in the world is among the country's most significant architectural and cultural landmarks, blending Islamic tradition and modern engineering excellence and drawing thousands of visitors each year.

The construction of the mosque spanned approximately 11 years, involving nearly 40 construction companies, 3,000 workers, and artisans and craftsmen from around the world.

Distinguished by its white marble cladding, 82 domes of various sizes, and more than a thousand intricately designed columns, the mosque's architectural fabric reflects a level of craftsmanship that combines artistic detail with technical precision. The installation of the domes, particularly, required advanced engineering, precision lifting, and stringent safety controls.

AJHL was contracted to execute the heavy lift operations for installing of the 82 domes onto the mosque's structural framework. Each dome component weighed approximately 20 tonnes with the largest dome having a diameter of 32 m and positioned at a height of 84 m.

The radii, the irregular shape and the angles of the dome components demanded meticulous planning, engineered lift studies, specialised heavy equipment, and tightly coordinated execution to safely lift, position, and secure each unit.

AJHL was engaged early to provide critical input across initial assessments, feasibility studies, resource planning, regulatory compliance, and risk management. This enabled the identification of potential operational and safety risks, as well as the establishment of robust safety and communication protocols.

The selection of equipment was driven by several factors including the dimensions and weights of the domes, the need for manoeuvring them with precision, and the proven reliability of the equipment in complex operations.

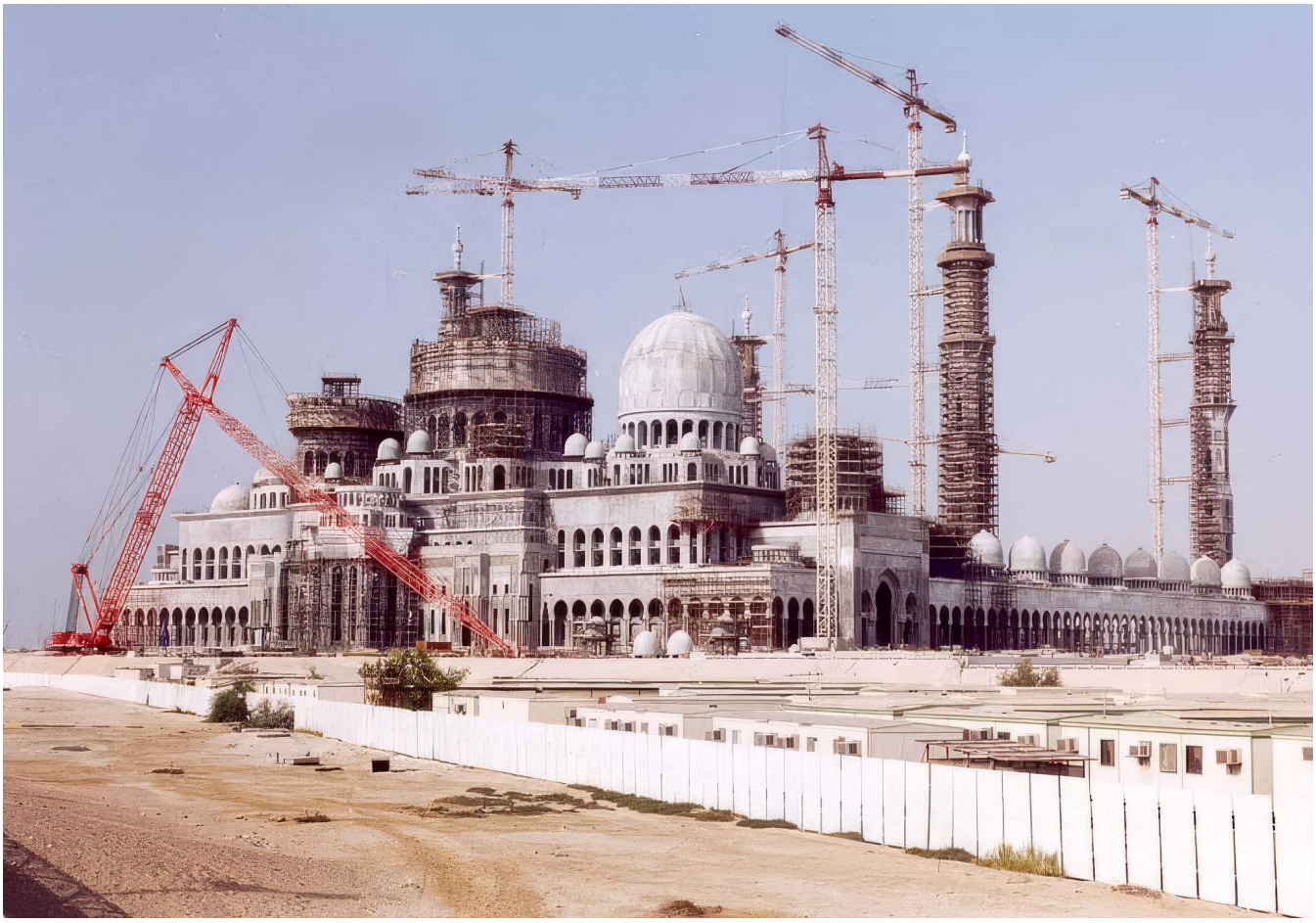
Six cranes were deployed for the lifting operations led by a 1,200-tonne Gottwald AK912 crane which was one of the largest capacity cranes in the region and was selected for its reach, stability and performance in demanding environments.

To meet the project's height and radii requirements, the AK912 was outfitted with a 48 metre tower for additional height and a 95 metre luffing jib for extended reach.

This configuration allowed the team to manoeuvre the domes at a working radius of up to 92 metres and install each component safely and accurately.

The successful installation of all 82 domes was completed on schedule with exceptional standards of operational, technical, and safety performance.

The operation demonstrated AJHL's capability to execute high precision heavy lift solutions for landmark architectural projects and contributed to the completion of one of the UAE's most iconic and celebrated architectural and religious structures.



SCULPTING AN ABU DHABI LANDMARK

Engineered lifting prowess adds finesse to the installation of asymmetrical arches of Abu Dhabi's Sheikh Zayed Bridge

The Sheikh Zayed Bridge is one of the UAE's most distinctive landmarks, connecting Abu Dhabi Island with the mainland across the Maqta Channel.

Inspired by the fluid forms of desert sand dunes and defined by asymmetrical steel arches that form a signature sinusoidal waveform, the bridge stands as an architectural and engineering icon within the region's transport network.

AJHL was contracted to execute the heavy-lift operations for installing the bridge's arch segments. Lifting and positioning the segments presented significant engineering and execution challenges due to their complex geometry and sizes. A total of four arch segments had to be installed on each side of the bridge, with individual weights of approximately 282 tonnes, 428 tonnes, 600 tonnes, and 631 tonnes.

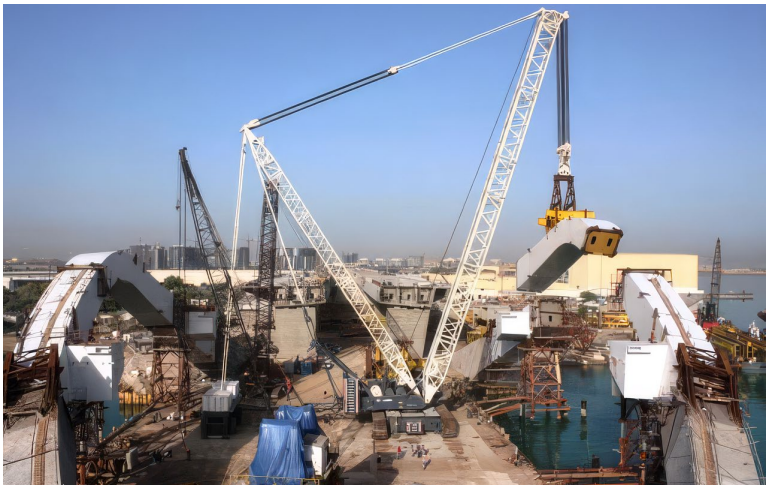
The operation had to be carried out under highly challenging site conditions, including restricted working space, tight installation tolerances, and backfilled ground over water, all of which imposed stringent requirements on ground bearing capacity, crane positioning, and

stability control. Each lift demanded detailed engineering studies, including lift planning, rigging design, stability checks, and coordination with site stakeholders to ensure safe and efficient execution.

Equipment selection was driven by the demanding jobsite conditions and the need for proven reliability in complex operations. A 1,600-tonne Demag CC 8800-1 crawler crane was deployed to carry out all critical rigging and lifting operations. The arch segments were installed at an elevation of approximately 35 metres above ground level, with precise control and continuous monitoring throughout each lift.

AJHL's highly skilled team of engineers, supervisors, crane operators, riggers, and support personnel worked in strict compliance with the planned schedule and safety protocols, enabling all lifting operations to be completed on time and without incident.

The project demonstrated AJHL's capability to deliver high-precision heavy-lift solutions for architecturally complex structures, reinforcing its role as a trusted partner in the execution of landmark infrastructure projects across the UAE.



ELEVATING UAE NATIONAL PRIDE

Precision heavy lift enables the installation of a 124 metre flagpole at the Abu Dhabi Corniche

The Abu Dhabi Corniche, one of the UAE's most picturesque and recognisable waterfront destinations, stretches over eight kilometres and serves as a focal point for leisure activities and cultural and community events in the capital city. Its vibrant landscape was further elevated with the addition of a 124-metre flagpole, symbolizing national pride and unity.

AJHL was contracted to execute the lifting and installation of the flagpole, which measured 2.5 metres in diameter and weighed approximately 90 tonnes. Manoeuvring and erecting the structure with precision presented significant challenges, particularly related

to ground stability and coastal environmental conditions. The soft soil along the corniche was assessed thoroughly to ensure the flagpole could be anchored securely and that the lifting equipment was stable during erection. Additionally, the wind conditions, particularly coastal gusts, were continuously monitored to ensure safe lifting windows.

A 1,200 tonne Gottwald AK912 crane was deployed for the task, configured with a 78 metre tower and a 71 metre luffing jib to achieve the required elevation and reach. This setup enabled the flagpole to be hoisted and positioned with controlled accuracy throughout the lift. The operation was executed in strict adherence to safety protocols and full compliance with project timelines.

The successful installation of the flagpole demonstrated AJHL's capability to deliver complex heavy lift solutions for landmark structures.

ADVANCING LNG AMBITION IN OMAN

OMAN LNG PROJECT, SUR - OMAN

A full suite of heavy-lift and transport capabilities supports the end-to-end logistics of cryogenic process equipment for LNG plant in Sur, Oman.

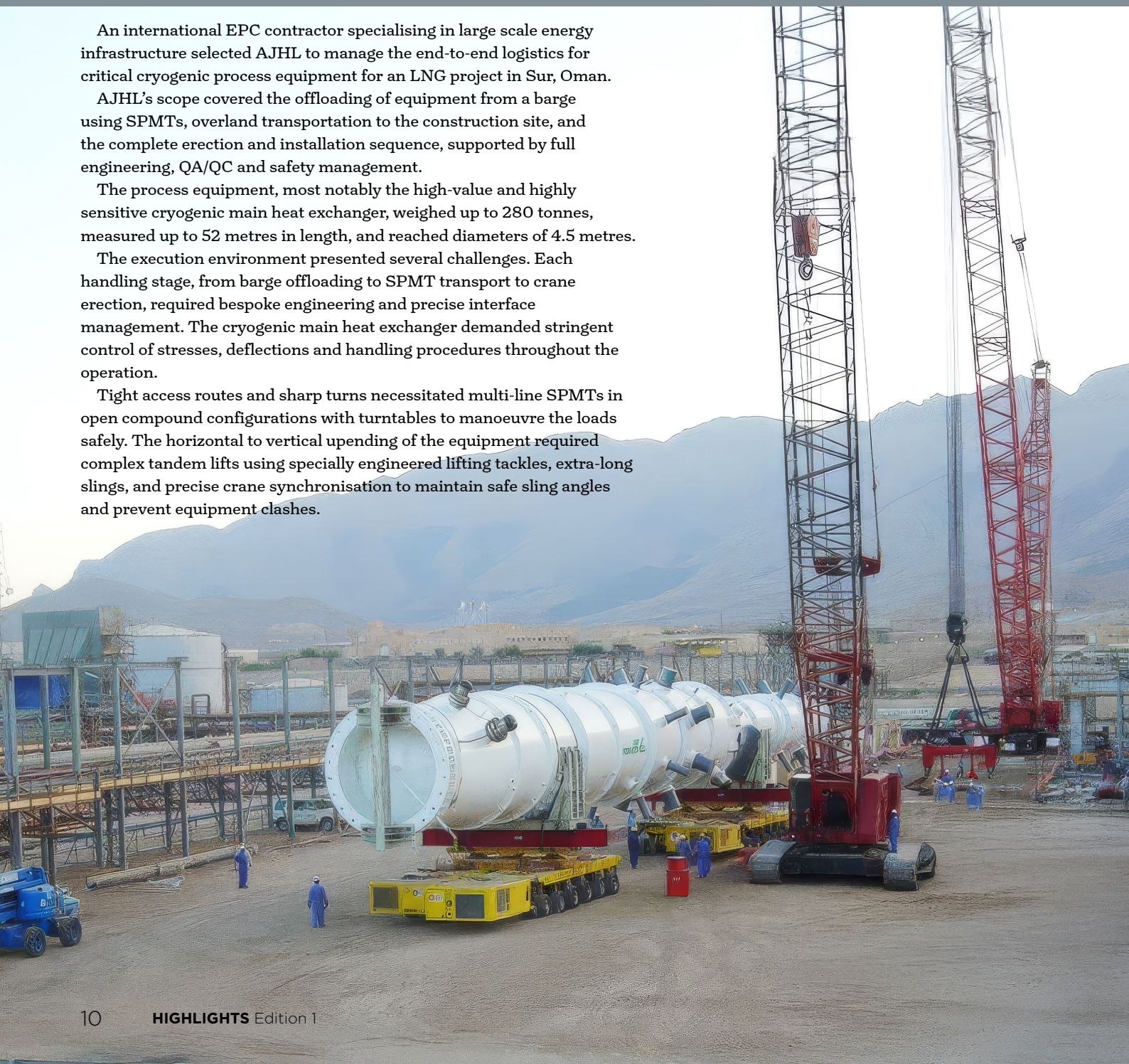
An international EPC contractor specialising in large scale energy infrastructure selected AJHL to manage the end-to-end logistics for critical cryogenic process equipment for an LNG project in Sur, Oman.

AJHL's scope covered the offloading of equipment from a barge using SPMTs, overland transportation to the construction site, and the complete erection and installation sequence, supported by full engineering, QA/QC and safety management.

The process equipment, most notably the high-value and highly sensitive cryogenic main heat exchanger, weighed up to 280 tonnes, measured up to 52 metres in length, and reached diameters of 4.5 metres.

The execution environment presented several challenges. Each handling stage, from barge offloading to SPMT transport to crane erection, required bespoke engineering and precise interface management. The cryogenic main heat exchanger demanded stringent control of stresses, deflections and handling procedures throughout the operation.

Tight access routes and sharp turns necessitated multi-line SPMTs in open compound configurations with turntables to manoeuvre the loads safely. The horizontal to vertical upending of the equipment required complex tandem lifts using specially engineered lifting tackles, extra-long slings, and precise crane synchronisation to maintain safe sling angles and prevent equipment clashes.



AJHL simplified the project for the client by providing a single source, fully integrated solution covering the entire logistics chain. Engagement at the planning stage allowed potential risks, interface challenges, and equipment limitations to be identified well in advance, resulting in optimised methodologies for marine offloading, SPMT transportation, and erection sequencing, and a fully de risked execution strategy. Detailed engineering studies, including transport analyses, lifting studies, crane configurations, and stress checks, provided clarity and confidence, while seamless interface management from port to site ensured predictable and controlled execution.

A multidisciplinary team was mobilised, comprising project management, engineering, lifting and transport supervision, crane and SPMT operators, rigging crews, QA/QC personnel, HSE officers, and logistics coordinators. Daily toolbox talks, lift briefings, and coordination meetings ensured alignment with safety requirements and operational plans.

The selection of equipment was driven by the cargo dimensions, lifting heights, site constraints and precision-handling requirements.

The lifting configuration included a Gottwald AK 912 lattice boom crane serving as the lead crane, a Manitowoc 4100 S2 lattice-boom crawler crane serving as the tailing crane, and a Demag AC 120 crane for auxiliary support, providing the capacity, reach and flexibility required for complex tandem and tailing lifts.

The SPMTs were configured as two sets of 6x6 axle lines in open compound formation with turntables, ensuring optimal load distribution and manoeuvrability through confined routes.

The project required extensive planning and permitting, including marine operations approvals, over dimensional transport permits and detailed lift and method statement approvals. Safety remained the foundation of all operations, supported by systematic hazard identification, risk mitigation measures, qualitative risk matrices, and continuous communication through daily briefings and pre-start meetings.

Close collaboration with the EPC contractor was maintained across all phases of execution, with transparent communication, regular coordination meetings, and joint inspections ensuring alignment with the project schedule and safety expectations.

As a result, the project was completed safely, on schedule and without incident. A standout achievement was the successful transportation and installation of the cryogenic main heat exchanger, including its safe manoeuvring through tight access routes, upending using a complex tandem lift and final positioning onto its foundations with millimetre-level accuracy.

The successful execution strengthened AJHL's reputation as a trusted heavy lift partner for complex LNG and energy infrastructure projects in the Middle East region.

END-TO-END SYNCHRONIZATION ACROSS TWO CONTINENTS UK & QATAR

Multi-modal logistics expertise enables the safe delivery of fragile process units from the UK to Qatar's gas-to-liquids plant

A leading international manufacturer of process units and industrial gases required a multimodal heavy lift and transport solution to deliver two prefabricated cold boxes for Qatar's gas to liquids plant in Ras Laffan Industrial City. The operation demanded end to end logistics from the fabrication yard in the UK to final installation in Qatar, involving marine transport, overland delivery, tandem lifting, and precise installation onto foundations.

AJHL was selected to manage the full heavy logistics scope across two continents, beginning with loadout and sea fastening at Ellesmere Port in the UK, followed by marine transport to Ras Laffan Port, offloading onto SPMTs for overland delivery, and final installation using cranes. Each cold box weighed 600 tonnes and measured 60m × 7m × 14m, requiring meticulous transport and lift engineering due to their size, weight, and structural fragility.

The multimodal nature of the project introduced significant challenges: safe handling of oversized cargo, complex coordination across marine and land interfaces and precise manoeuvring within an active construction site. The installation required perfectly synchronised tandem lifts with zero margin for error.

AJHL's proactive engagement enabled comprehensive assessments, feasibility studies, resource planning, regulatory compliance, and risk management, which helped identify potential bottlenecks and environmental risks and guided the development of detailed

methodologies for loadout, transport, lifting, and communication protocols. Acting as a single source operator, AJHL provided full accountability, transparent engineering documentation, and seamless alignment with all stakeholders, ensuring coordinated decision making and daily operational clarity.

The equipment was selected to account for both the fragility of the cargo and the constraints of a congested site. SPMTs with 40 axle lines and four PPUs were deployed for optimal load distribution and manoeuvrability. A heavy lift marine vessel, the MV Fairmast, was selected for its proven deck strength, stability and lift capacity. Two crawler cranes, a 1,250 tonne Demag CC 8800 and a 600 tonne Demag CC 2800 serving as the lead and tailing cranes, respectively, executed the synchronised lifts within the required operating radius.

A team of logistics coordinators, engineers, marine superintendents, crane and SPMT operators, riggers, supervisors, and HSE officers maintained rigorous operational control, supported by daily briefings and strict adherence to safety protocols. Major risks, including cargo shift at sea, quayside instability, SPMT failure, and crane interference, were mitigated through precise sea fastening calculations, controlled transport speeds, and the use of taglines with defined communication protocols during lifting. All risks were assessed using a qualitative matrix, ensuring resources were focused on the most critical areas.

The project required extensive regulatory compliance, including marine warranty approvals, international shipping and customs documentation, port permits, and detailed engineering studies covering sea fastening, SPMT configuration, road reinforcement, tandem lifting, and ground bearing pressure. Strict weather windows were defined for marine discharge, transport, and lifting, supported by continuous monitoring.

AJHL executed the complex multimodal transport and heavy lift operations safely and on schedule through meticulous planning, engineering discipline, and close collaboration with all stakeholders. In particular, the flawless delivery and installation of the 600-tonne cold boxes, from fabrication yard to final foundations, demonstrated AJHL's capability as a trusted partner and single source operator for the world's most demanding integrated heavy logistics challenges.

FROM FACTORY TO FOUNDATION IN SEAMLESS HARMONY

Integrated logistics excellence delivers incident-free, on-time transport and erection of columns for natural gas liquids fractionation plant in Abu Dhabi

As part of the expansion of its midstream infrastructure in Abu Dhabi, the UAE's primary natural gas producer required a multimodal heavylift and transport solution for a new natural gas liquids (NGL) fractionation plant, involving marine and overland transportation and the erection of prefabricated process columns.

AJHL was selected to move three columns of varying specifications, beginning with their loadout using SPMTs and seafastening at Hamriyah Port in Sharjah, followed by marine transport to a jetty in the Ruwais industrial area, offloading to SPMTs for overland delivery and final erection onto foundations using cranes.

The operation presented significant challenges due to the size and weight of the columns, including a 960tonne deethanizer and an 845tonne depropanizer, requiring meticulous engineering and specialised equipment. The logistics chain demanded precise coordination across port, marine, and overland interfaces, while the congested construction site required controlled manoeuvring and tightly synchronised tandem lifts with zero margin for error.

AJHL conducted comprehensive assessments, feasibility studies, resource planning, regulatory compliance, and risk management to identify potential bottlenecks and environmental risks and to formulate detailed methodologies for loadout, transport, lifting, and communication protocols. Serving as a singlesource operator, AJHL provided full accountability, transparent engineering documentation, and seamless alignment with all stakeholders, ensuring coordinated decisionmaking and daily operational clarity.

Operationally ready equipment was deployed considering the columns' dimensions, weights, and the constraints of the Ruwais site. SPMTs with 48 axle lines were deployed for optimal load distribution and manoeuvrability.

Three marine vessels, a 4,500DWT barge (Al Jaber 30), a 2,200DWT landing craft (Al Jaber 17) and a 45tonne bollardpull tug (Al Jaber 6), were selected for their deck strength and capacity to safely transport the cargo along the UAE coastline.

Two crawler cranes, a 1,600tonne Demag CC 88001 SSL and a 600tonne Demag CC 2800SSL designated as the lead and tailing cranes, respectively, were operated in their sideways superlift configuration to maximise stability and lifting capacity within the restricted site footprint.

A team of 25 specialists, including logistics coordinators, engineers, marine superintendents, crane operators, riggers, supervisors, and HSE officers, executed the operation with strict adherence to safety protocols and daily briefings. Hazards across all phases, from SPMT loadout to tandem lifting, were systematically assessed, with control measures embedded into method statements covering seafastening, SPMT routing, and crane synchronisation. Continuous communication through toolbox talks and pretask briefings ensured all personnel understood risks, controls, and responsibilities.

The project required extensive regulatory compliance, including marine permits from port authorities and coastal guards, overdimensional transport permits from the Abu Dhabi Department of Transport, and detailed lift plans, risk assessments, and method statements approved by the contractor and client. Strict weather windows were defined for marine discharge, transport, and lifting, supported by continuous monitoring.

The meticulous logistical planning, engineering, and collaborative framework established by AJHL and the project stakeholders enabled the execution of the highly complex multi-modal transport and heavy lift operations on schedule with exceptional standards of operational, technical, and safety performance.

Key achievements included the safe and onschedule management of the entire logistics chain for three columns from port to final installation, with seamless handovers across three locations; the transport, manoeuvring, and tandem lifting of all the columns, including the 960tonne deethanizer, in a congested environment; and the completion of all the operations without incident.

This project demonstrated AJHL's unique value proposition: the ability to simplify complex multi-modal logistics challenges, from factory to foundation, while delivering flawless execution as a single-source operator for energy infrastructure projects.

MULTI-MODAL MASTERY-OGD3 PROJECT UAE

Seamless logistics delivers safe, on-schedule transport and installation of process columns for gas processing plant in Abu Dhabi

As part of the expansion of its upstream gas processing facility in Abu Dhabi, the UAE's primary natural gas producer required a multi modal heavy lift and transport solution for a new gas processing plant. The scope involved marine and overland transportation and the erection of six prefabricated process columns.

AJHL was appointed by the project's EPC contractor to execute the loadout of the columns using SPMTs at Zayed Port, sea fastening and marine transport to the Ruwais industrial area, offloading to SPMTs for overland delivery, and final erection onto foundations using cranes.

The operation presented significant logistical and technical challenges. The oversized cargo included a 1,022-tonne, 4.8-metre-diameter, 47.9-metre-high HP absorber; a 759-tonne, 4.8-metre-diameter, 59.7-metre-high demethanizer; and a 344-tonne, 5.5-metre-diameter, 44.7-metre-high solvent regenerator. Their dimensions demanded rigorous planning, specialised equipment, and precise handling across multiple transfer points. The final overland transport and lifting within a congested construction site called for careful traffic management and coordination with ongoing works. The installation phase required perfectly synchronised tandem lifting with zero margin for error.

AJHL's early engagement was central to the operation's success. The team contributed to initial assessments, feasibility studies, resource planning, regulatory compliance, and risk management. This enabled the identification of potential bottlenecks and environmental risks, and guided the development of detailed methodologies for loadout, transport, and lifting, supported by robust safety and communication protocols.

Acting as a single-source operator, AJHL provided full accountability across all transport and heavy lift activities, with complete transparency for the client about methodologies, equipment configurations, and site-specific requirements.

Equipment selection was driven by the columns' dimensions, the need for precision in a restricted site, and the proven reliability of AJHL's fleet. SPMTs were configured to ensure optimal load distribution and manoeuvrability: 48 axle lines and 4 PPUs for the HP absorber, 40 axle lines and 2 PPUs for the demethanizer, and 24 axle lines and 2 PPUs for the solvent regenerator. The sea going barge Al Jaber 30 was selected for its deck strength and capacity to safely transport the heavy cargo along the UAE coastline. Two crawler cranes, a 1,600-tonne Demag CC8800 1 lead crane and a 600-tonne Demag CC2800 tailing crane, were deployed to execute synchronized lifts within the constrained operating radius.

A dedicated team of more than 20 specialists, including logistics coordinators, engineers, marine superintendents, crane operators,

riggers, supervisors, and HSE officers, executed the works in strict compliance with safety protocols.

Safety remained the foundation of all operations, supported by proactive hazard identification, embedded control measures, and continuous communication through toolbox talks and pre task briefings. Method statements covered sea fastening, SPMT routing, and crane synchronization, while risks were categorised using a qualitative matrix to prioritise resources.

Given the scale and multi modal nature of the operation, extensive regulatory approvals were secured in advance. Marine permits were obtained from port authorities and coastal guards, while over dimensional transport permits were issued by the Abu Dhabi Department of Transport. The lift plans, risk assessments, and method statements were approved by the contractor and client to ensure full compliance with site safety standards.

Through meticulous planning, engineering precision, and seamless collaboration, AJHL executed the complex transport and installation of all six columns safely and on schedule. The successful delivery reinforced AJHL's reputation as a trusted partner and single-source operator for critical heavy logistics operations in the energy sector.

MIDDLE EAST CRANES CONFERENCES, DUBAI

Al Jaber Heavy Lift was the event partner for the first Middle East Cranes Conference held in 2007 at the Shangri La Hotel in Dubai. Our General Manger Mr. Alexander Mullins delivered the keynote address on "The relationship between designers, constructors and crane manufacturers".

The conference was hosted by Cranes Today magazine and attended by over 200 delegates and industry professionals from as far afield as Europe, Canada and the Far East. We emphasized our efforts to integrate marine, overland transportation and erection services under the headline banner "going to great lengths to attain new heights".

A scale model of a Demag CC8800-1 TWIN crane was exhibited at the venue which drew the attention of many enthusiastic customers and industry professionals. Significant headway was made by the speakers in developing analysis and clarification of a wide range of issues including the priorities of safety and training.

Due to the success and extremely positive feedback of the first edition of the conference, we were delighted to sign up as the event partner for the second edition in January 2008, held at the Shangri La Hotel, Dubai. Over 200 delegates attended the conference, and the keynote speech was delivered by our General Manager Mr. Alexander Mullins on "The rise of heavy-lift cranes and crane service providers".


TEREX

DEMAG CC8800-1 TWIN FACTORY TESTING IN GERMANY

A new 3200-tonne capacity crawler crane, the Demag CC8800-1 TWIN, was formally handed over to Al Jaber Heavy Lift at an exclusive ceremony in Germany.

As the world's highest-capacity crawler crane, it represents nearly seven years of concept development, made possible through AJHL's strategic relationship with the manufacturer, Terex Demag.

The Demag CC8800-1 TWIN delivers significant time and space efficiencies in the erection of large industrial facilities when compared with conventional lifting equipment, and it comes with a full range of pick-and-carry capabilities.

Al Jaber Heavy Lift

Safely onwards and upwards

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