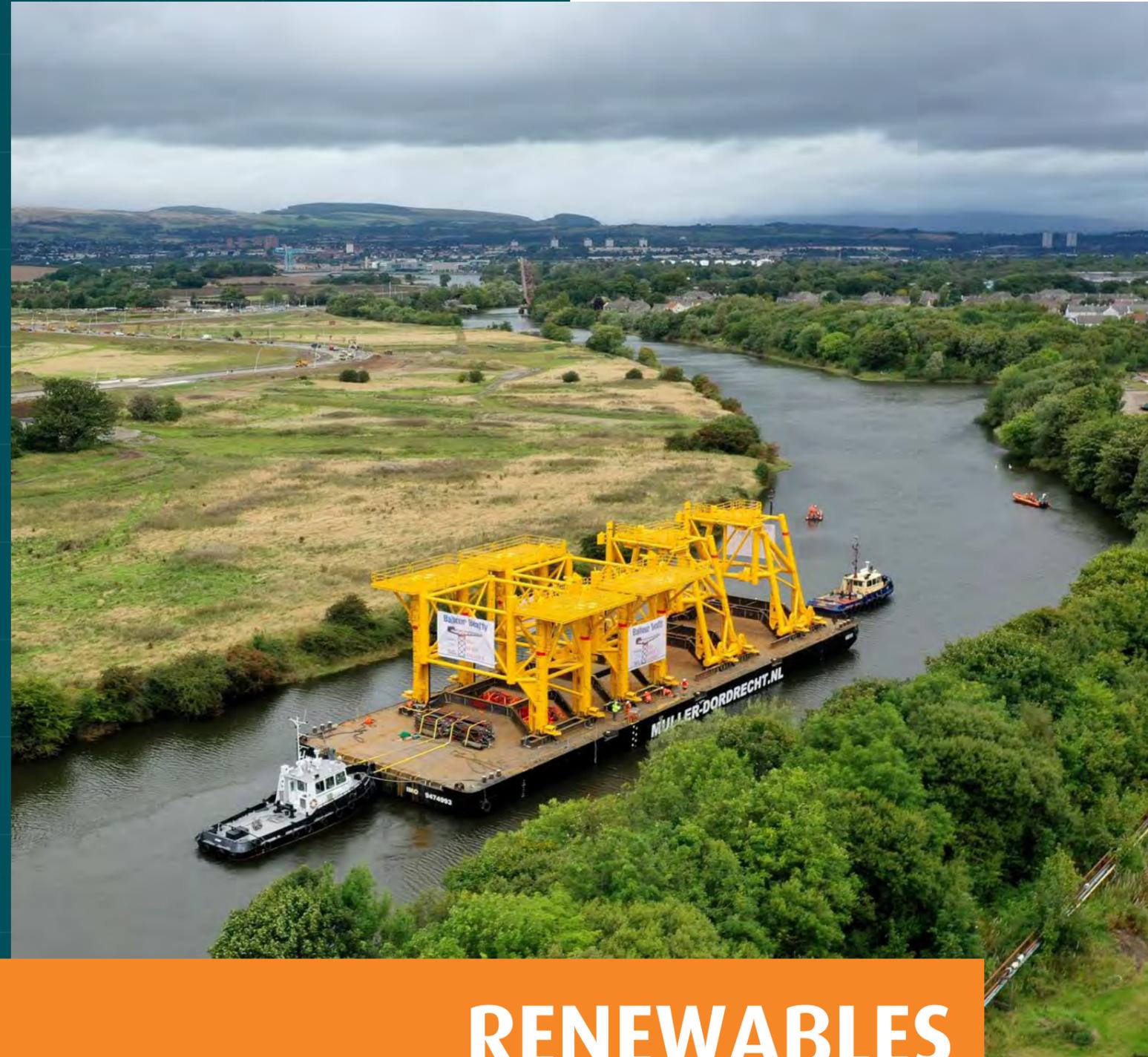


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**END TO END
MARINE
SOLUTIONS**



RENEWABLES

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INTRODUCING THE MALIN GROUP

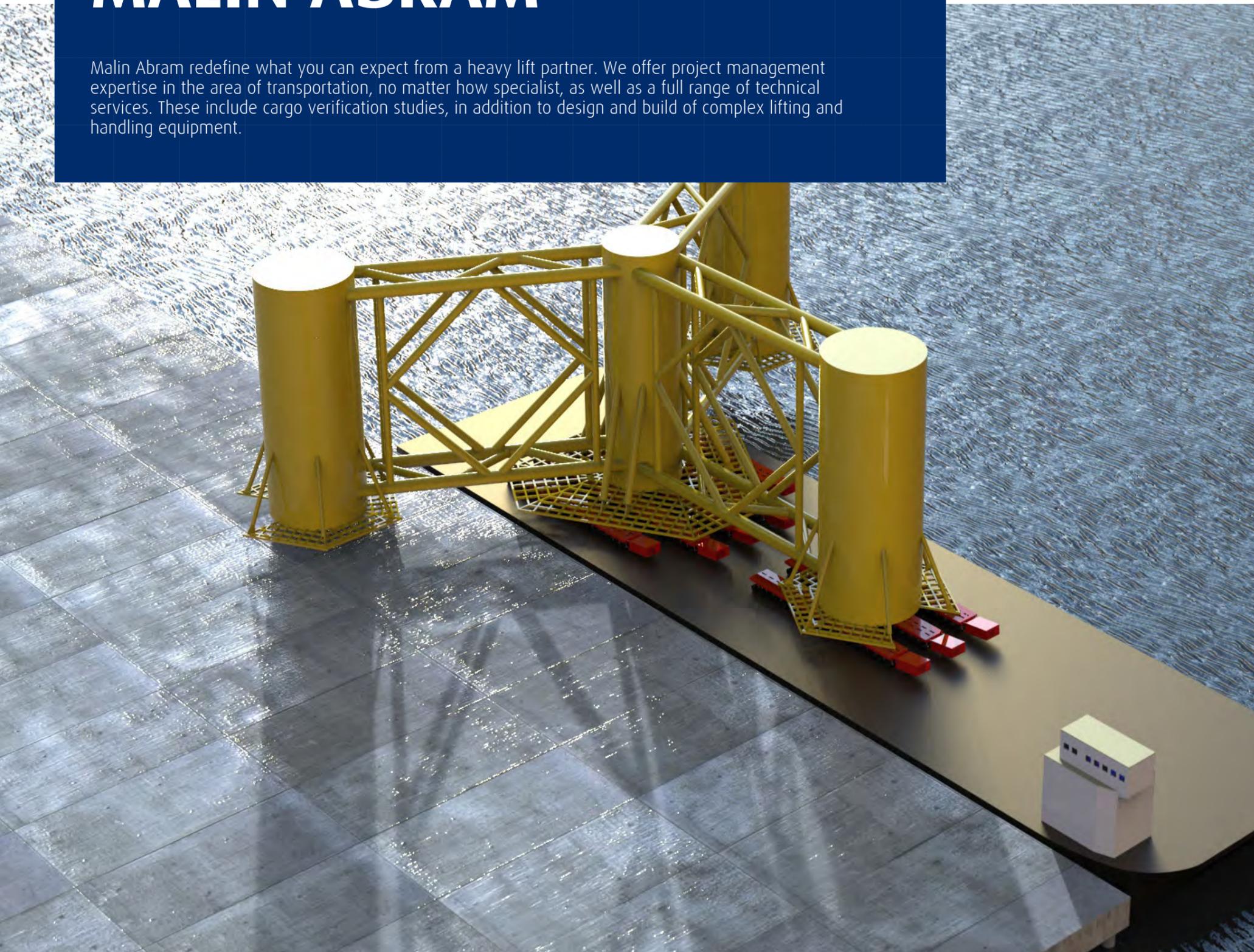
THE MALIN GROUP REPRESENT A FAMILY OF SPECIALIST MARINE ENGINEERING COMPANIES, BASED ON THE BANKS OF THE RIVER CLYDE IN GLASGOW, SPECIALISING IN HIGH INTEGRITY, OFFSHORE STEEL STRUCTURES THAT CAN BE TRANSPORTED BY SEA WITH THE USE OF OUR LOCAL QUAYSIDE.

- **Malin Abram** specialise in heavy lift project cargo shipping and handling. This includes full turnkey projects where all trailer hire, craneage, shipping, engineering, temporary steelwork fabrication, chartering and operational planning and oversight is managed and executed by one in-house team. Their specialist skills are also harnessed to deliver other heavy lift services such as third party warranty approvals and operational oversight, as well as design and fabrication of custom mechanical handling jigs, cradles and equipment.
- **Malin Marine Services** offer a range of through life services covering the full range of specialist on site welding, 3D laser scanning, hydraulics, refurbishments and marine repairs. Clients range from ferry, naval and commercial vessel operators to shipyards, marine civil contractors and marine infrastructure owners.
- **Malin Marine Equipment** offer a range of marine equipment both proprietary and manufactured under license. This encompasses watertight doors, hatches, ramps, A frames, davits, buoys and pipework. Access to other Group design resources means that anything in their published range can be altered to a client's customs needs quickly and efficiently.
- **Malin Newbuild** specialises in the fabrication and outfit of complex marine equipment, structures and vessels to a client's own set of drawings and specifications.
- **Malin Augstea** is a joint venture with an internationally renowned tug and barge owner. It brings into joint ownership a converted semi-submersible barge, which is one of the largest in Europe.
- **Malin Integrated Solutions** is a joint venture between Malin Group Ltd, Marint (Offshore Services) Ltd, and Dixon Marine Consulting Ltd, building on the skills and experience of each company, to offer a fully integrated specialist service for the marine and offshore fields.
- The **Scottish Marine Technology Park (SMTP)** once complete, will include a large fabrication facility and a deep-water jetty with a 1,100 tonne ship hoist – the largest of its kind in Europe.

The Group work to support each of our companies through a network of central areas of expertise, spanning finance, quality assurance, human resources, strategic management, research and development and marketing and brand management.

MALIN ABRAM

Malin Abram redefine what you can expect from a heavy lift partner. We offer project management expertise in the area of transportation, no matter how specialist, as well as a full range of technical services. These include cargo verification studies, in addition to design and build of complex lifting and handling equipment.



HEAVY LIFT TO US IS MORE THAN THE OPERATIONAL SIDE OF SUPPLYING CRANES, SHIPS, BARGES AND HEAVY HAULAGE. WE OFFER SPECIALIST LIFTING BEAMS, COMPLEX CRADLES AND HANDLING JIGS, AS WELL AS THE DESIGN AND MANUFACTURE OF BESPOKE HANDLING AND MANIPULATION TOOLSETS FOR MANUFACTURING AND MAINTENANCE APPLICATIONS.

Our team of engineers can assess your needs and propose optimum solutions based on equipment that is readily available for hire or more specific, long term bespoke solutions incorporating hydraulic actuators and custom control systems.

We regularly support the renewables sector through a range of bespoke services, including:

- Logistics & Port Infrastructure Studies;
- Heavy Lift & Shipping Services;
- Design & Supply of Bespoke Handling Equipment
- Design, Supply and Installation of Deck Grillages and Sea fastening
- Technical Authority Services
- Independent Technical Support

LOGISTICS & PORT INFRASTRUCTURE STUDIES

MALIN ABRAM CAN PROVIDE AN ASSESSMENT OF PORTS CAPABLE OF STORING/HANDLING THE CLIENT'S EQUIPMENT INCLUDING THE WIND TURBINE COMPONENTS WITHIN A REASONABLE RADIUS OF THE OFFSHORE SITE THAT COULD BE USED AS MARSHALLING YARD.

An in-depth study of port facilities and associated costs for the following can be provided, to allow project teams to establish and select the most economical facilities for a specific project:

- laydown area , quayside length and suitability for barges
- port infrastructure
- environmental assessment on the quayside for loading in and out
- ground bearing capacity on quayside and in storage areas

We can also provide a matrix of estimated costs for the additional services such as crane and SPMT hire, provision of tugs and pilots and all other potential harbour fees which may be applicable.

HEAVY LIFT & SHIPPING STUDIES

WHETHER YOU REQUIRE US TO SUPPLY A CRANE AND SOME BESPOKE LIFTING EQUIPMENT, OVERSEE SEA FASTENING INSTALLATION OR ARRANGE FOR SITE SURVEYS AND ROAD TRANSPORT, WE CAN MANAGE ANY SUBSET OF THE RANGE OF SERVICES IN A TYPICAL HEAVY LIFT CONTRACT – AND DO SO WITH CONTRACT TERMS THAT BEST SUIT YOUR NEEDS.

This may cover the delivery of a cargo to a loading port, handling all permits, heavy haulage, cranes and access restrictions in the case of a land move, or looking at all aspects of inland waterway movements and transshipment in the case of delivery via local canals and river systems to a client supplied sea going vessel. In other cases, the client may require us to supply the seagoing vessel or tug and barge, with all loading and discharging requirements handled in-house. Here they will load the cargo to our vessel, and we will then take receipt as it is landed to the deck and be responsible for securing it for sea transport.



DESIGN & SUPPLY OF BESPOKE HANDLING EQUIPMENT DECK GRILLAGES AND SEA FASTENING

WE HAVE EXPERIENCE IN HOUSE OF FABRICATING A WIDE RANGE OF HEAVY LIFT STEELWORK. FROM SMALL SEA FASTENINGS, BRACES, DECK GRILLAGES, LOAD SPREADING MATS, AND LIFTING BEAMS AND CRADLES THROUGH TO DESIGN AND OUTFIT OF LARGER AND MORE COMPLEX MECHANICAL HANDLING EQUIPMENT, WE ARE ON HAND TO HELP.

We benefit from access to a Group fabrication capability which significantly de-risks manufacturing and outfitting our own projects.

We offer guidance at design stage, which has positive financial implications when it comes to handling, moving and shipping equipment later in the manufacturing cycle.

Assistance also includes the design and manufacture of build jigs to support and re-orientate sub-assemblies during the erection process, as well as jigs and transport aids for moving components by land, sea and air.

- When assigning a cargo to a ship or barge, aside from the physical fit of it into the vessel, the cargo weight and centre of gravity must be taken into consideration.
- When dealing with heavy lift cargo especially, there is a need to ensure that the vessels underdeck structure can withstand the loads imposed by the cargo during seagoing conditions.
- When the vessels internal structure is unable to withstand such loads, bespoke grillages need to be installed to ensure loads are distributed from the cargo support points into the vessels deck structure to avoid damage to either the cargo, the vessel or both.

Malin Abram can assist with this process, undertaking thorough investigations and cargo checks to ensure suitable grillage configuration. Strength and load distribution are also checked to ensure the shipment requirements are always met. Combined with build support from our dedicated fabrication facility, we can offer a turnkey solution to satisfy your complete needs. Our dedicated project engineers can also provide a bespoke, cost-effective securing solution that suits your cargo and the vessel it is transported on. With design experience of sea fastening ranging from simple lashings to complex steel welded designs to suit project cargo ranging from under 40Te to excess of 12,000Te, our engineers offer the highest standard of design, unfaltering attention to detail, all laid out in clear, easy to understand documentation.



TECHNICAL SUPPORT

OUR NAVAL ARCHITECTS AND PROJECT ENGINEERS ARE TRAINED IN MANAGING VARIOUS SITE OPERATIONS, FROM SINGLE LIFT-ON/LIFT-OFF OPERATIONS TO MORE COMPLEX ROLL-ON/ROLL-OFF OPERATIONS TAKING CARE TO MANAGE ALL SUBCONTRACTOR INTERFACES AND SIM-OPS.

Whether managing a short cargo loading operation or a large turnkey project, our site operations team have excellent project management and leadership skills enabling them to act as your single point of contact on site. We are here to offer strong operational planning with good and practical safe systems of work that can integrate with your requirements.

Third Party Oversight & Warranty

This form of contract can be broadly split into two main categories, namely third-party technical authority services and independent technical support.

Technical Authority Services:

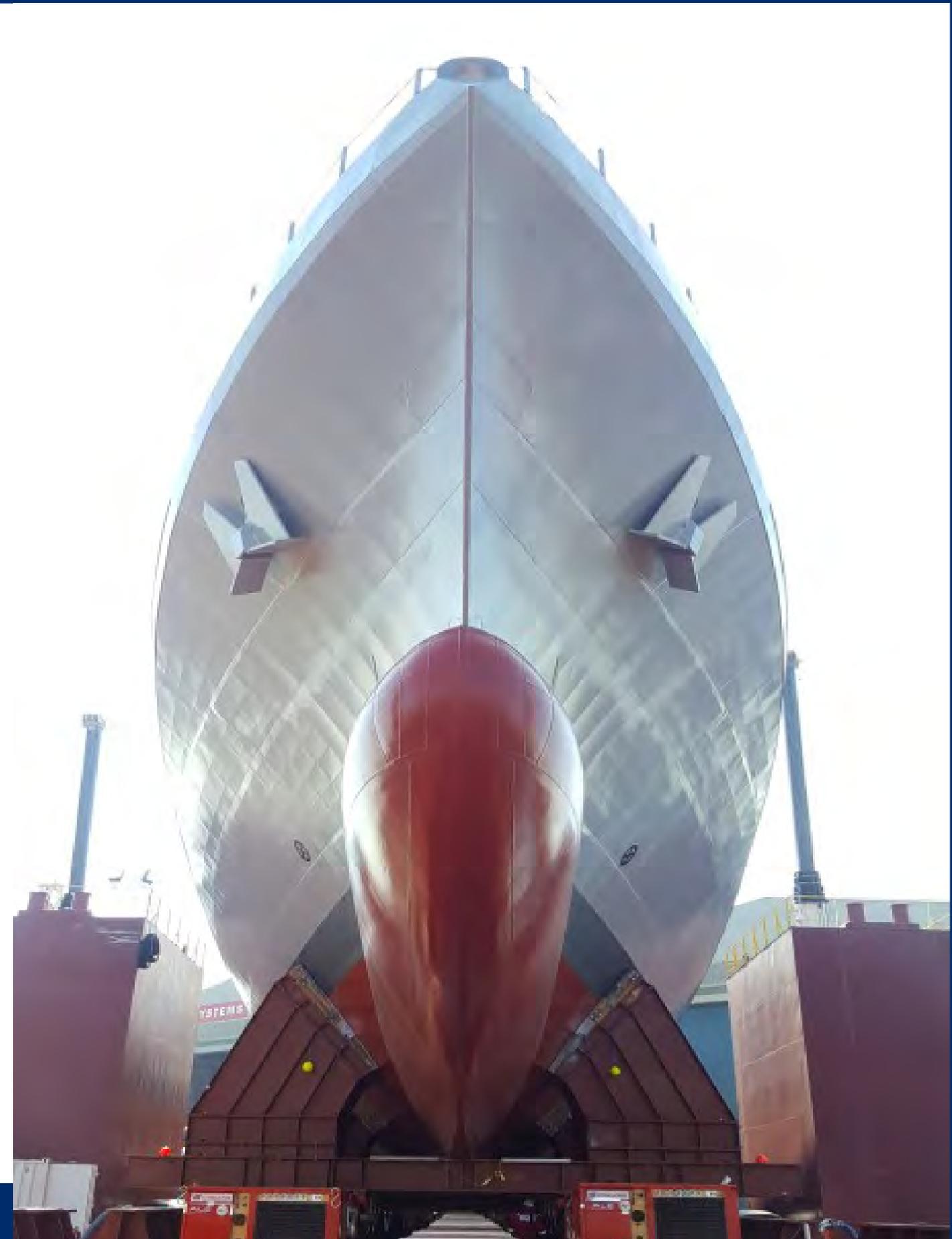
These are normally those required by underwriters who carry responsibility for insuring a client's cargo, but sometimes the client themselves look for oversight of work they have contracted as part of internal due diligence and project support. Regardless of which it is, we will ensure that the operation is executed in a safe and controlled manner. We ensure that sea fastenings and stability of the vessel is acceptable, and all marine operations are well thought out and suitability risk assessed and planned. Similarly, we ensure that any trailer arrangements, crane lifts and other land-based operations are carefully managed and confirmed to be technically sound. When operating services under these conditions, a clear line must be drawn between delivering services and reviewing services to ensure that clear liability and sub-contractor controls are in place. We do however differentiate ourselves from many other warranty and third party review authorities by using our in house technical experts for oversight that also deliver projects day to day for us, thereby ensuring a knowledgeable and practical approach to design reviews with constructive guidance and feedback that aims to reduce the cost to you, as well as risk, where possible.

Independent technical support:

This covers a wide range of heavy lift design and support services, including ad-hoc support for projects where gaps in the supply chain or project technical expertise becomes apparent.

The range of services may also differ depending on the type of operation:

- For lifting operations, we can offer lift plans, design rigging spreads, assistance with on site audits and reviews, lift oversight and site supervision.
- For marine operations we can undertake all forms of planning, storyboarding of operations, production of risk assessments and method statements. Design and technical tasks from sea fastening design and supply, ballast calculations, strength checks, grillage design, mooring studies through to motion response and offshore deployment analysis all can be undertaken by our in house teams.
- For trailer operations, we can review stability, trailer strength, assist in trailer selection as well as swept path and access studies.



MALIN NEWBUILD

WITH OVER 100 YEARS OF TRUSTED HERITAGE IN THE CLYDESIDO MARITIME INDUSTRY, MALIN ARE PROUD TO HARNESS THIS EXPERTISE TO CREATE COST EFFECTIVE NEWBUILDS.

Malin Newbuild specialise in the fabrication and outfit of complex marine equipment and vessels to a client's own set of drawings and specifications.

Our in-house execution team consisting of project managers, fabrication experts and planners, allows us to take a set of client plans, either fully realised or part designed, and assist in turning these into the reality of a working end product.

With experience on a variety of projects, across sectors from defence and nuclear, to renewables and oil and gas, we are on hand to actualise your requirements.



Commitment to quality, safety and certification



Customer focused, with turnkey service



Holistic design and bespoke fabrication service



Leader in training, testing and welder certification



WE WILL DELIVER YOUR DESIGN, ON TIME, ON BUDGET, TO SPECIFICATION, EVERY TIME.

FABRICATION OF PRIMARY, SECONDARY AND TEMPORARY STEEL

MALIN NEWBUILD SPECIALISE IN THE FABRICATION AND OUTFIT OF COMPLEX MARINE EQUIPMENT AND VESSELS TO A CLIENT'S OWN SET OF DRAWINGS AND MATERIALS.

Our qualifications include:

- Execution Class 4
- BS EN 1090 Certification
- ISO 3834 Certification

Utilising our experience gained across the Defence, Oil & Gas sectors, Malin Newbuild has created an offering which is customisable, tailored to your specific needs. Our offering is suitable for companies looking to break into the renewables sector with exciting technologies, as well as for well established companies who are looking to expand their existing offering.

The Target is set: Carbon Neutral 2050

With the challenge now set, Malin Newbuild are prepared to meet the coming demand with a significant growth in our internal design and fabrication capabilities. As part of the Malin Group, a company of over 100 employees, spread across a number of specialist Business Units, we are able to draw on dedicated, shared resources to offer a true turnkey solution.

The Facility

Located on the West Coast of Scotland, the Malin Newbuild facility houses one of the largest indoor fabrication site in the UK. With over 10,000m² we offer the required space to carry out orders of the largest scale.

Primary Steel

We have extensive experience in primary steel, with recent examples including the manufacture and delivery of the Minesto Buoy & the AWS Archimedes Waveswing. Both projects utilised the wide array of specialist skills within the team and showcased the scale to which we can work – the Minesto buoy weighed just over 70 tonnes, with the AWS Waveswing 50 tonnes. Operating under our rigorous management and safety standards, Malin Newbuild can deliver a solution for you.

Secondary Steel

Turning to secondary steel, we are on hand to deliver the specialist skills and knowledge to meet your project requirements. A recent example can be seen in our complex platform fabrications for the Beatrice Wind Farms.

Temporary Steel

We have supported a variety of respected defence companies, including BAE Systems, for whom we recently fabricated temporary steel decks.



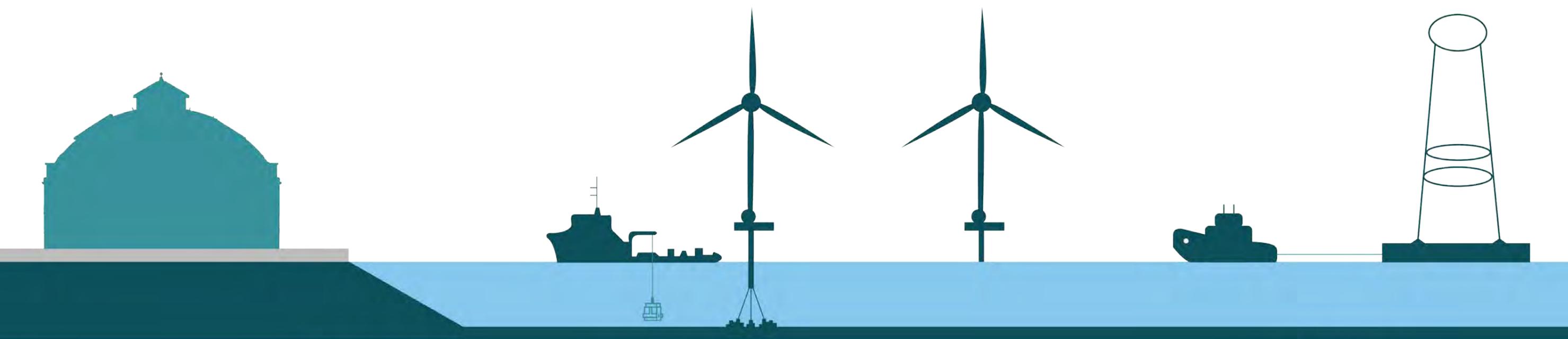
MATERIAL PREPARATION, PROFILING & WELDING SOLUTIONS

Reflecting our commitment to meeting the demands of Carbon Neutral 2050, our in-house welding specialist division, John Tracey Welding, offer over 200 qualified weld procedures, covering a range of exotic materials such as; fine grain, high strength steels, aluminium, stainless steel, super duplex, titanium and cunifer. Our welding capabilities include:

- 111 – MMA
- 135 – GMAW
- 136 – FCAW
- 141 – TIG

We also offer non-destructive testing (NDT) within our facility – promoting our turnkey offering further. With 24 hours a day service commitment, Malin Newbuild can meet demanding turnaround times – adapting to the growing and shifting daily requirements of the renewables sector.

MALIN INTEGRATED SOLUTIONS



=

Malin Group
 Technical expertise
 Shoreside engineering

+

DIXON MARINE
 Consulting Ltd
 Subsea
 chartering expertise

+

MARINT
 (OFFSHORE SERVICES) LTD
 Surface
 chartering expertise

MALIN INTEGRATED SOLUTIONS IS A JOINT VENTURE BETWEEN MALIN GROUP LTD, MARINT (OFFSHORE SERVICES) LTD, AND DIXON MARINE CONSULTING LTD, BUILDING ON THE SKILLS AND EXPERIENCE OF EACH COMPANY, TO OFFER A FULLY INTEGRATED VESSEL CHARTERING SERVICE FOR THE MARINE AND OFFSHORE FIELDS.

The Malin Group bring a broad range of engineering expertise, ranging from front end design and fabrication to heavy lift transport and installation. This expertise is teamed with extensive vessel chartering experience from Marint and DMC; Marint provide expertise across tugs, offshore support vessels, barges and specialist semisubmersible vessels, whilst DMC specialise in subsea and project support vessels and equipment.

- Extensive Inhouse Vessel Database
- Technical and Commercial Contracting Support
- Traditional Shipbroking
- Bespoke Tender Solutions



SUPPORTING OFFSHORE PROJECTS

MALIN INTEGRATED SOLUTIONS OFFER YOU THE BENEFIT OF OVER 100 YEARS OF CUMULATIVE EXPERIENCE, ON HOW BEST TO NAVIGATE THE TECHNICAL, COMMERCIAL AND OPERATIONAL CHALLENGES OF SUCCESSFUL OFFSHORE AND SUBSEA PROJECTS. WE ARE ON HAND TO ENSURE THAT YOUR PROJECTS ARE DELIVERED SUCCESSFULLY, IN THE MOST EFFECTIVE AND EFFICIENT MANNER.

Our specialist team together offer a wide array of skills and expertise, which enable us to deliver a diverse range of complex and interrelated solutions. Each one of these innovative solutions are informed and guided by the commercial pressures faced by our clients, to ensure they are practical and adaptable.

Our in-house team of engineers and fabricators, alongside chartering and marine operations personnel, enable Malin Integrated Solutions to deliver a fully turnkey service. From design and fabrications, to delivery and installation, we are on hand to meet every aspect of your project scope. For example, our design team implicitly understand not only the design and end use scope, but also the transportation and installation challenges. They can work closely with the chartering and fabrication teams in maximising both build and transport feasibility of cradles, supports and temporary structures.

By offering this full end to end service, we are able to deliver an efficient, low risk and cost effective service to our clients.

OUR FABRICATION FACILITY



west

A SPECIALIST SITE

We offer a truly turnkey service through our dedicated fabrication facility, encompassing design, fabrication, delivery and installation. Our design capability covers all stages of manufacturing including concept, front end engineering design (FEED), detail design, non destructive testing and production design, as well as full CAD support including 3D and finite element analysis (FEA).

The site itself benefits from a large external laydown area with a footprint of 2000m² and direct access to the loadout quay. This is combined with our own on-site dock facility, which has been specifically designed for the marine transportation of heavy/bulk unit loads by RO/RO (roll-on/roll-off), or LO/LO (lift-on/lift-off) cargoes. This high-end facility enables us to provide clients with an alternative, cost effective and efficient shipping solution for large project cargoes that are unsuitable for road transportation or are bound for foreign markets.

Our large undercover area is supported by two 50Te and one 10Te overhead cranes, alongside a variety of plant and machinery to cater for your needs, from pipe work formers and notching machines, to plasma profiling and drilling machines. We also offer mig, tig and stick welding depending on your specific needs. If required, the facility also supports non destructive testing (NDT) capabilities, with ultrasonic testing, magnetic particle testing, liquid penetrant inspection and qualified CSWIP 3.1 welding inspection. This wide range of services and machinery, all housed in our expansive facility, enables our customers to have their projects met through one central point of contact – providing cost and time efficiencies.

We offer clients the benefits of a 24-hour manned gatehouse with sophisticated computer aided barrier entry/exit systems, CCTV monitoring and mobile patrols, which operate within our fully secure site. Our on-site dock facility has been awarded "Secure by Design" accreditation and also benefits from 2.4 metres (8ft) security fencing.

OUR SITE SPECIFICS

We have the capability to work with a full range of materials, ranging from low and high carbon steels, to stainless steel and aluminium.

We can incorporate these materials into structures from 100kg to 100Te with footprints undercover of various sizes.

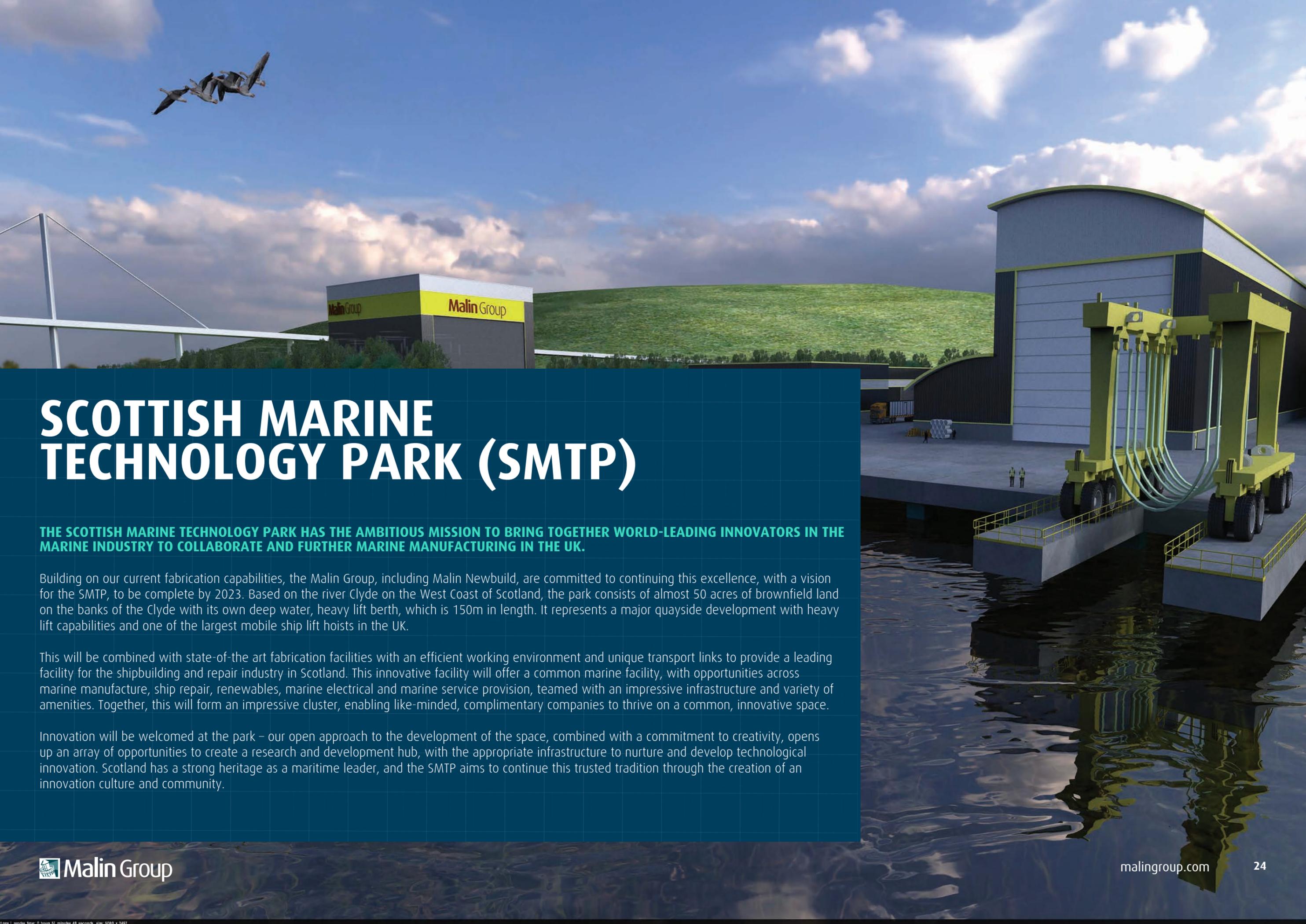
We also provide bespoke loadout services for structures greater than 100Te, teamed with analysis to allow us to load-out onto our on-site load-out quay.

Site dimensions

F6, 7 & 8 Spec (each)		G2	
Length (m)	190	Warehouse Space (m)	5,536
Breadth (m)	20	Office Space (m)	737
Area (m ²)	3,800	Overhead Crane	1 x 500Te
Main bay door height x width (m)	18.0 x 10.0	Hook Height (m)	23
Side door height x width (m)	8.7 x 7.2	Overhead Crane	1 x 100Te
Crane hook height 50Te (m)	9.2	Hook Height (m)	15
Crane hook height 10Te (m)	9.2	Main Bay Door (m)	15.58m x 14.83
		2 x Side Door (m)	9.11 x 8.8
		Roof Ridge Height (m)	35.40
		Roof Eave Height (m)	32.41

Crane capacity & capability

Crane capacity	
Crane 1 =	50Te (m)
Crane 2 =	50Te (m)
Crane 3 =	10Te (m)



SCOTTISH MARINE TECHNOLOGY PARK (SMTP)

THE SCOTTISH MARINE TECHNOLOGY PARK HAS THE AMBITIOUS MISSION TO BRING TOGETHER WORLD-LEADING INNOVATORS IN THE MARINE INDUSTRY TO COLLABORATE AND FURTHER MARINE MANUFACTURING IN THE UK.

Building on our current fabrication capabilities, the Malin Group, including Malin Newbuild, are committed to continuing this excellence, with a vision for the SMTP, to be complete by 2023. Based on the river Clyde on the West Coast of Scotland, the park consists of almost 50 acres of brownfield land on the banks of the Clyde with its own deep water, heavy lift berth, which is 150m in length. It represents a major quayside development with heavy lift capabilities and one of the largest mobile ship lift hoists in the UK.

This will be combined with state-of-the-art fabrication facilities with an efficient working environment and unique transport links to provide a leading facility for the shipbuilding and repair industry in Scotland. This innovative facility will offer a common marine facility, with opportunities across marine manufacture, ship repair, renewables, marine electrical and marine service provision, teamed with an impressive infrastructure and variety of amenities. Together, this will form an impressive cluster, enabling like-minded, complimentary companies to thrive on a common, innovative space.

Innovation will be welcomed at the park – our open approach to the development of the space, combined with a commitment to creativity, opens up an array of opportunities to create a research and development hub, with the appropriate infrastructure to nurture and develop technological innovation. Scotland has a strong heritage as a maritime leader, and the SMTP aims to continue this trusted tradition through the creation of an innovation culture and community.

MALIN AUGUSTEA

MALIN AUGUSTEA IS A JOINT VENTURE WITH AN INTERNATIONALLY RENOWNED TUG AND BARGE OWNER. IT BRINGS INTO JOINT OWNERSHIP A CONVERTED SEMI-SUBMERSIBLE BARGE, WHICH IS ONE OF THE LARGEST IN EUROPE.

Class: LR
Built: China 2010
Registry: Valletta, Malta
Official N: 9557733
GT: 10,449 tonnes
NT: 3,135 tonnes

Technical Details

Length Overall: 137.0m
Beam: 36.6m
Depth: 7.6m
Max draught: 5.8m
Dwt on max draught: 21,806 tonnes
Deck area: 4,200m²
Frame spacing: 2,500mm
Deck loading: 20 tonnes per sq meter
Point loads: Up to 750 tonnes

Equipment

Ballast pumps: 2 Hamworthy pumps with max rated capacity of 1,000m³/hour each
Machinery: 2 Caterpillar engines each of 480 hp

Ballast System

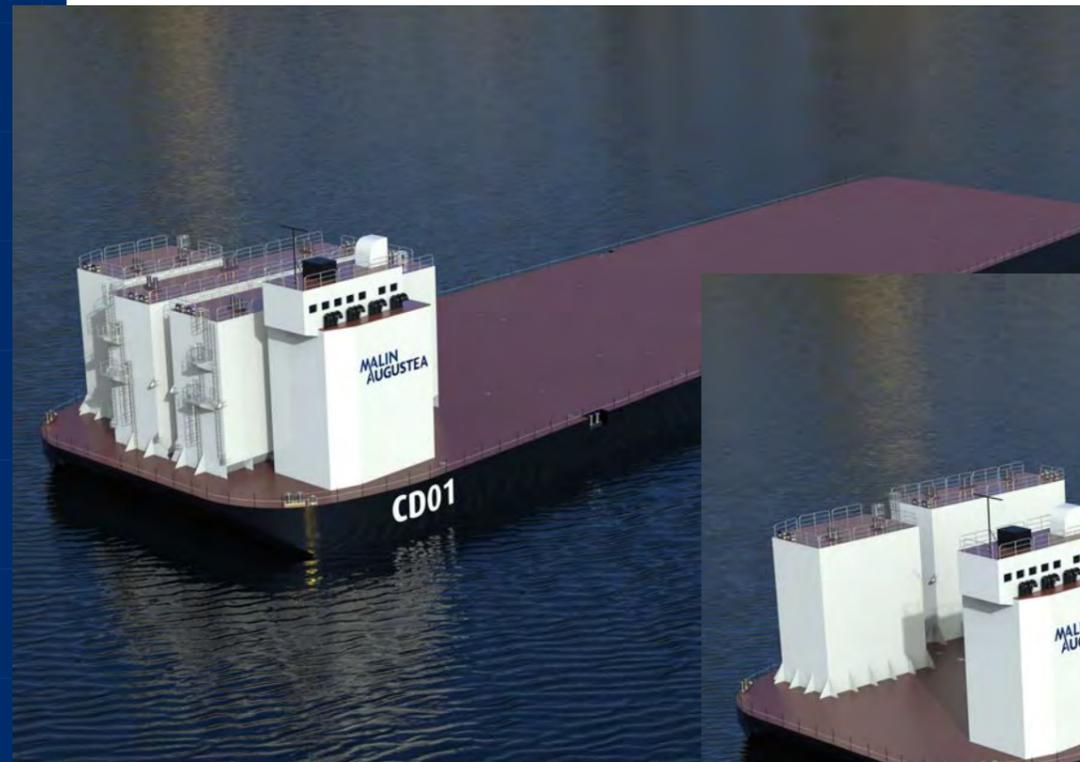
Valves are hydraulically operated from control room with pumps
Ballasting and deballasting is affected using the pumps

Submersion

Barge can be submerged to a maximum of 12m over main deck forward and aft.

Mooring system

1 anchor windlass with bow anchor



QUALITY ASSURED

Quality assurance is paramount to all that we do - Our quality procedures for design and implementation of technical analysis is rigorous and we pay particular attention to model quality checks and standardised use of software throughout our Group.

Our Safety procedures onsite and while working on vessels have been formed and developed to cover the specific risks associated with our work and the expectations of our clients.

We are committed to safety and risk management at all stages of a project from concept through to detailed design and implementation to deliver a system fit for purpose. This is achieved through our phased approach to design and development together with a safety assessment process (HAZOP) to ensure that potential hazards are captured early in the design development phase and that risk reduction measures are implemented to ensure that the remaining risks are considered to be as low as is reasonably practicable (ALARP).

We hold ISO 9001, ISO 14001 and ISO 45001 accreditation with DNV GL and our fabrication facility is certified ISO 1090-1 Execution Class 4 and ISO 3834-2. Our IT systems are protected and accredited to Cyber Essentials Plus.

DID YOU KNOW...



MEET THE TEAM

FROM NAVAL ARCHITECTS AND DRAUGHTSMEN, TO STRUCTURAL ENGINEERS AND PROJECT MANAGERS, OUR TEAM CONSIST OF A PLETHORA OF DIVERSE SKILLS AND EXPANSIVE EXPERIENCE, GAINED ACROSS PROJECTS OVER A VARIETY OF SECTORS ACROSS THE GLOBE.



JOHN A MACSWEEN
GROUP MANAGING DIRECTOR

John is the Managing Director of the Malin Group. Having graduated with a degree in Naval Architecture and Ocean Engineering from Glasgow University, John joined Henry Abram and Sons as a Graduate Marine Superintendent. From here he has spear-headed development and diversification efforts, resulting in the Malin Group, home to several successful sub-brands, which focus on marine manufacturing, support, and technology sectors all over the world.

CHRIS CAIRNS
COMMERCIAL DIRECTOR

Chris is the Commercial Director for Malin Abram. Having graduated in 2011 with a degree in Quantity Surveying, Chris spent the first 5 years of his career in the oil and gas industry with a worldwide oil and gas subsea contractor in Aberdeen, where he managed numerous high profile tenders for major oil and gas projects. Chris joined Malin Abram in 2016, where he has enjoyed being involved with tendering various heavy lift and marine scopes and seeing them through to project execution. Chris is responsible for the teams' tendering activities, ensuring compliance and tender deadlines are achieved.



CHRIS DUNN
PRINCIPAL NAVAL ARCHITECT

Chris, a Chartered Engineer and a Member of the Royal Institute of Naval Architects, has over 25 years' experience in the Shipbuilding and Offshore Wind sectors in the West of Scotland, gaining experience in many of the technical departments within the Upper Clyde shipyards during his 17 years with BAE Systems. In 2011 he moved from his position as Technical Project Manager at BAE to the Spanish wind turbine manufacturer Gamesa Offshore Wind where he helped develop the offshore turbine manufacture, transportation, assembly and logistics strategies for their offshore installations. Chris joined Malin Group in Feb 2020.

JAMES BOWIE
ENGINEERING DIRECTOR

James Bowie began his career as a summer intern with Malin Abrams, before gaining a degree in Naval Architecture and joining full time as a graduate. Having successfully worked through the graduate programme and Naval Architect stream he now holds the Engineering Director position in Malin Abram. James has experience in a variety of projects from marine heavy lift transportation to design and manufacture of bespoke jigs and has been involved in major site operations worldwide.



STEVE THORNLEY
SALES DIRECTOR

Steve joined Henry Abram & Sons in 1994 from Babcock Power, as a Marine Superintendent. Part of a management buyout of Henry Abram and Sons and Malin Marine Consultants in 2012, Steve was promoted to Sales Director, with responsibility for developing the custom base, creating strong customer relationships. In 2015 Steve, along with his fellow directors, founded Malin Fabrication in order to diversify the service offering and improve the joint offering to clients.

GARY PATERSON
DIRECTOR

Gary Paterson is Director, joining Malin in 2014 after completing an MEng in Aeronautical Engineering at The University of Glasgow. Gary has a broad experience on the logistics side of Oil & Gas projects, most notably working as an in-house Heavy Lift Specialist on the TCO project. In addition to being AP (Appointed Person) qualified, he also specialises in seafastening design & global & local structural checks on vessels and barges.

