

MALIN
ABRAM

INNOVATING HEAVY LIFT SOLUTIONS



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MALIN ABRAM: OVER 100 YEARS OF MEETING OUR CLIENTS NEEDS

WE CAN TRACE OUR COMPANY ROOTS AS FAR BACK AS THE MID-18TH CENTURY, WITH INVOLVEMENT IN SHIPPING AND SHIP DELIVERY THROUGH THE SUCCESSFUL YEARS OF SHIP CONSTRUCTION AND TRADE

The group has since both grown and diversified, and over the last 15 years, has given life to a number of additional, specialist companies, cementing the Group's place as one of the most comprehensive providers of end to end marine solutions in the world.

Today, we harness the values and experience of our heritage, to be an expert partner to our clients on a global scale:

EXPERTISE

We strive to be the best we can, for our own professional development, each other, our clients and the wider industry

INNOVATION

We are passionate about finding new, inventive solutions, striving to progress, support our colleague's development and deliver the best possible solution for our clients

TRANSPARENCY

We work with integrity, impartiality and show respect for our colleagues and clients alike

Over 100 years experience



OUR APPROACH

WE WORK WITH OUR CLIENTS WORLDWIDE, TO PROVIDE A VALUE ADDED SERVICE ACROSS ALL FACETS OF HEAVY LIFT INCLUDING TECHNICAL, OPERATIONAL AND PROJECT MANAGEMENT SERVICES

We are driven by our client's needs - we work to ensure clients hire the optimum level of equipment from as wide a supply chain as possible, giving the best overall outcome at a realistic price.

Through feasibility studies, we work with clients pre-tender to identify optimum solutions for handling, movement, lifting, shipping and installation. This significantly de-risks the operational phases, by solving many operational issues at the earliest stage.

We can offer full turnkey pricing on all heavy lift projects, with the scope tailored fully to meet your needs. We can complete all operations on your behalf, from hiring all equipment, as well as assessing the integrity of the cargo for handling.





MALIN ABRAM REDEFINE WHAT YOU CAN EXPECT FROM A HEAVY LIFT PARTNER

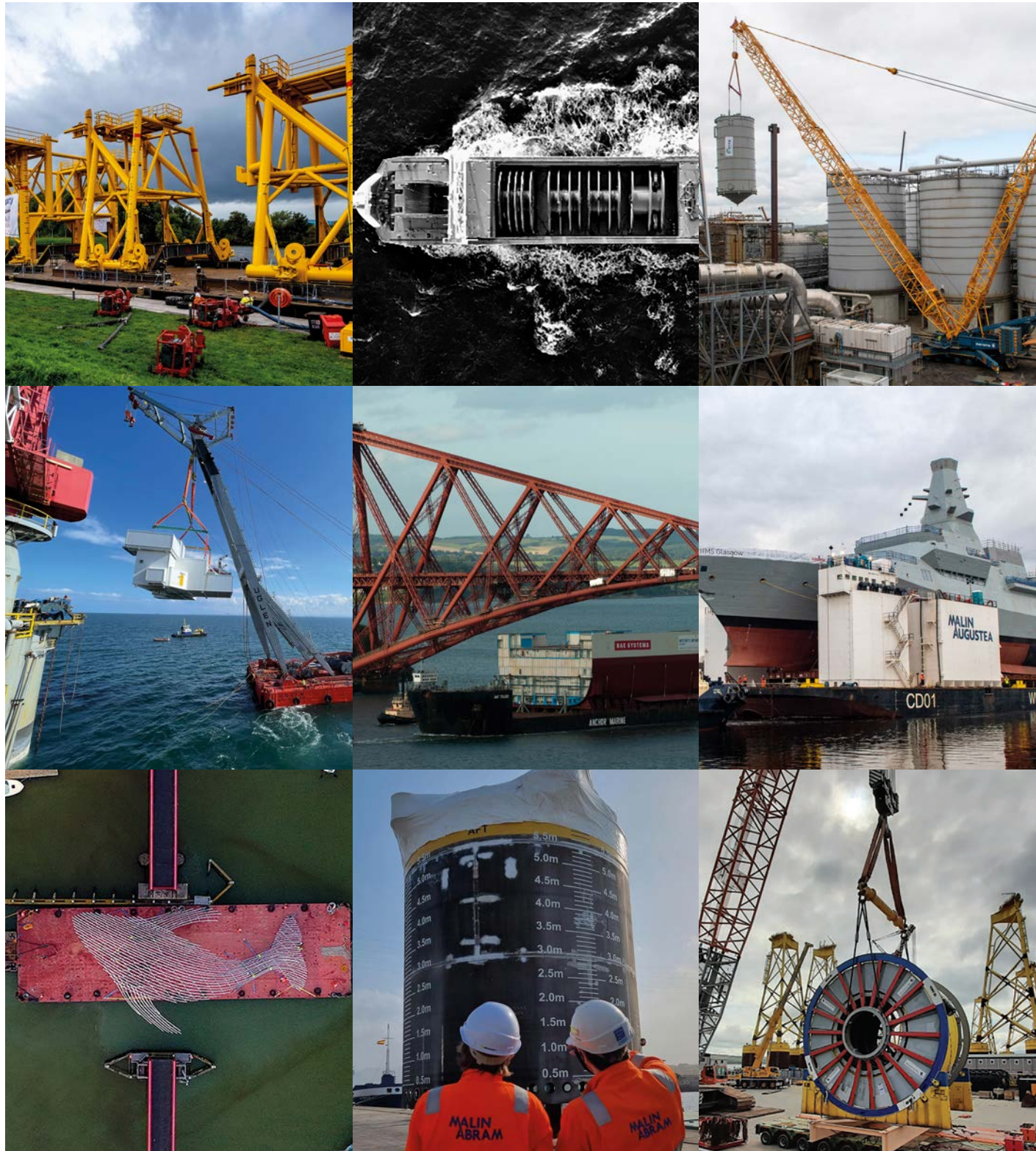
We offer project management expertise in the area of transportation, no matter how specialist, as well as a full range of technical services. These include cargo verification studies, in addition to design and build of complex lifting and handling equipment.

Heavy lift to us is more than the operational side of supplying cranes, ships, barges and heavy haulage. Our team of engineers carefully assess our clients needs to provide practical, economical, and often novel transport and lifting solutions.

Our engineers work closely with our clients, to achieve a cohesive “team” based approach to solving their transport challenges.

OUR SERVICES

WE ARE EXPERTS IN THE **TRANSPORTATION AND HANDLING** OF OUT OF GAUGE CARGO AND EQUIPMENT, WITH A FOCUS ON THOSE THAT HAVE A HIGH TECHNICAL REQUIREMENT OR LIE IN THE MARINE SECTOR



Heavy Lifting

- SPMT and crange supply
- Roll on/roll off engineering
- Lift on/lift off engineering
- Lifting and turning

Shipping and Transportation

- Vessel chartering
- Marine transportation
- Stowage plans
- Sea fastening design
- Cargo launches / float-offs

Haulage

- Road transportation of out of gauge cargo
- Transportation arrangement drawings
- Access route studies

Design and 3rd Party Assurance

- 3rd party assurance
- Suitability surveys
- Marine and site operations supervision
- Deck strength checks
- Trailer stability checks

TURNKEY TRANSPORTATION SERVICE

WE OFFER A **FULLY TURNKEY** SERVICE, VIA ONE SINGLE INTEGRATED TEAM - WE TAKE RESPONSIBILITY FOR ALL ASPECTS OF THE PROJECT AND OFFER YOU THE BEST QUALITY SERVICE

You simply need to outline the nature of the cargo to be moved, the collection point and the delivery or install location and we are on hand to take care of the rest.

We will organise the collection at your site and transport to the port of loading. This may be by road and delivery to port cranes, or cranes that we will source locally and oversee. Or it may require a move via an inland waterway, with us sourcing and supplying a suitable tug and barge, arrange the loading at your facility and then the discharge at a larger transshipment port to allow your cargo to be loaded to a seagoing vessel.

All aspects of the project are covered by us – from sourcing and negotiating a suitable seagoing vessel, to loading and securing to ensure the cargo is safely stowed for transportation. We are also here to handle all discussions with the local land and marine service providers for you, including ensuring that the local port authorities are aware of the movements and any special procedures or permits that are required are in place.

DESIGN AND THIRD PARTY ASSURANCE

FOR THOSE CLIENTS WHO MAY HAVE ALREADY PLACED ALL PRIMARY CONTRACTS OR HAVE ALL OF THE OPERATIONAL SUPPORT, EQUIPMENT AND CHARTERING IN PLACE - WE ARE ON HAND TO ASSIST WITH TECHNICAL SUPPORT AND ON SITE SUPERVISION

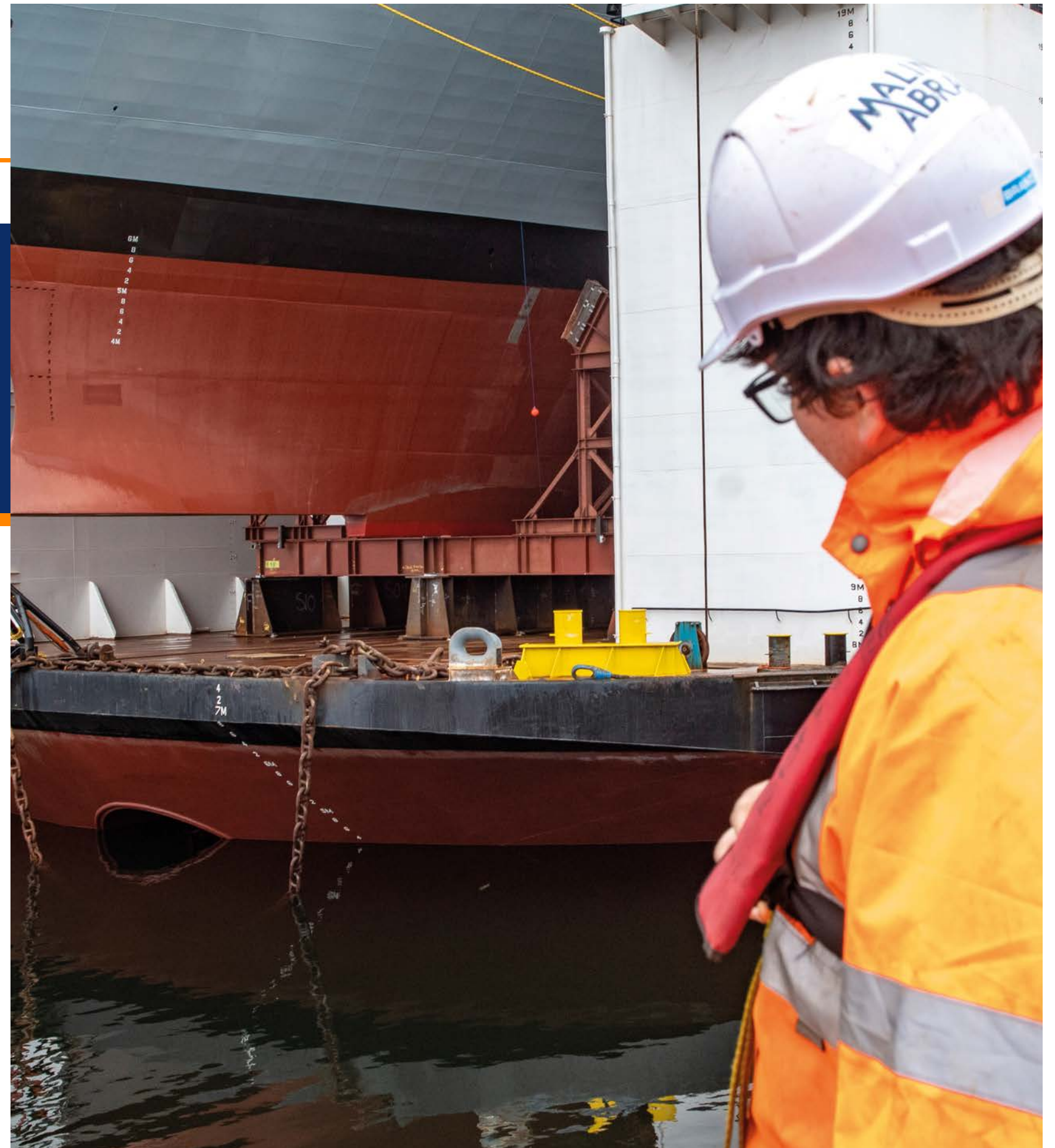
This form of contract can be broadly split into two main categories, namely third party technical authority services and independent technical support.

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 suitably risk assessed and planned. Similarly, we will 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, wherever possible.

Independent technical support

Our teams provide independent technical support for all aspects of transport and lifting. This ranges from feasibility studies at design stage through to final engineering and execution of operations. This support 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.



CD01: OUR CUSTOMISED BARGE

OFFERING A CUSTOM BARGE, A JOINT VENTURE BETWEEN MALIN ABRAM AND AUGUSTEA

The team also have access to the **CD01**, our custom semi-submersible that represents one of the largest in Europe at 137m length. A joint venture with Augustea, the CD01 can submerge to load vessels and cargo with draughts of up to 11m over the main deck (with her current caisson arrangement). Recently deployed to support the roll out and float off of the First in Class, HMS Glasgow, she is also perfectly placed to serve the wider defence, oil and gas, nuclear, and renewable sectors.



Main Details

Name:	CD01
Class:	LR
Built:	China 2010
Registry:	Glasgow, UK
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:	4,200m ²
Frame spacing:	2,500m ²
Deck loading:	20 tonnes per sq meter
Point loads:	Up to 750 tonnes

Equipment

Ballast pumps:	2 Hamworthy pumps with max rated capacity of 1000m ³ /hour each
Machinery:	2 caterpillar engines each of 480 hp

Ballast System

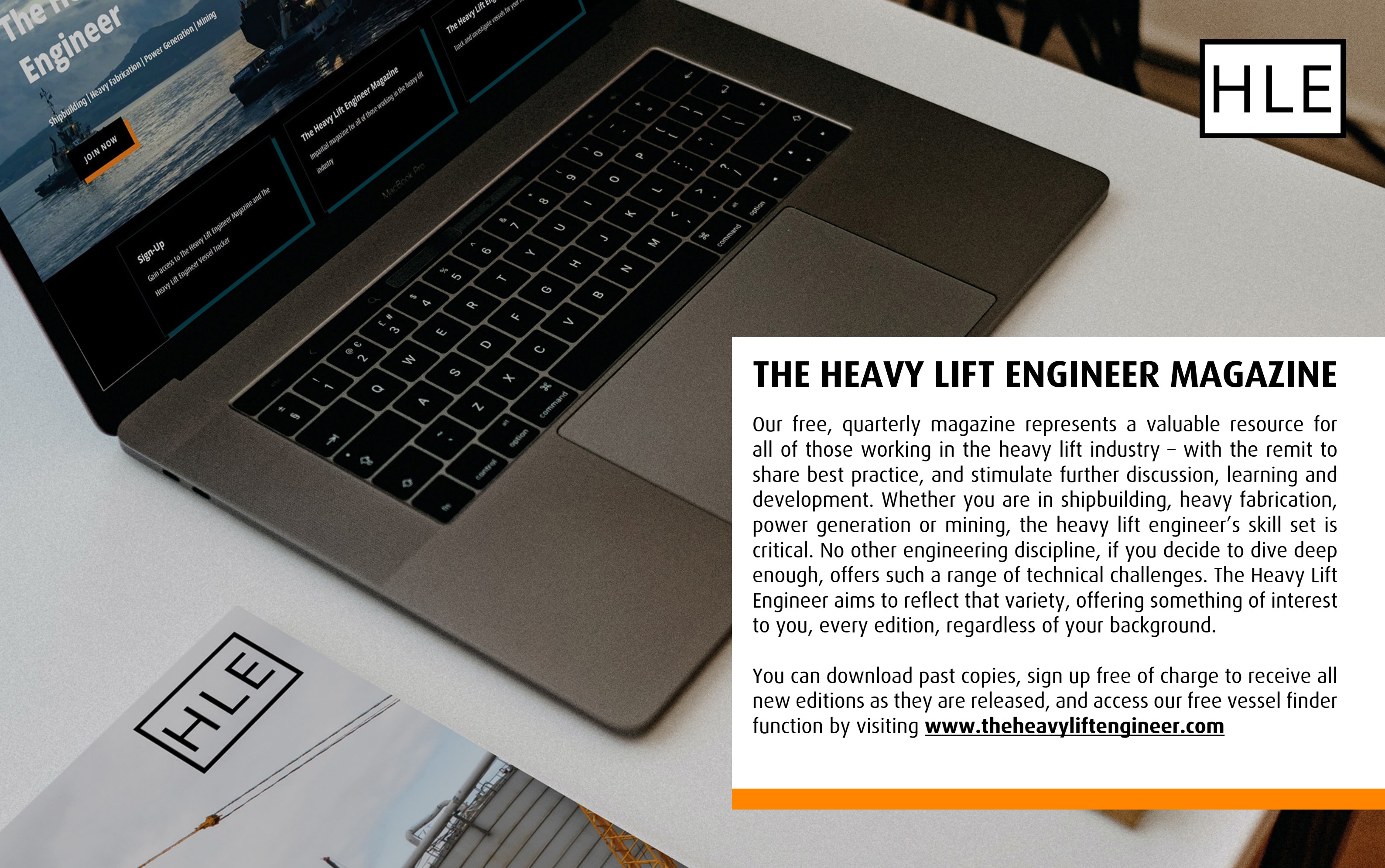
Valves are hydraulically operated from control room with pumps. Ballasting and deballasting is effected using the pumps.

Submersion

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

Mooring System

1 anchor windlass with bow anchor of 3.5 tonnes.



HLE

THE HEAVY LIFT ENGINEER MAGAZINE

Our free, quarterly magazine represents a valuable resource for all of those working in the heavy lift industry – with the remit to share best practice, and stimulate further discussion, learning and development. Whether you are in shipbuilding, heavy fabrication, power generation or mining, the heavy lift engineer's skill set is critical. No other engineering discipline, if you decide to dive deep enough, offers such a range of technical challenges. The Heavy Lift Engineer aims to reflect that variety, offering something of interest to you, every edition, regardless of your background.

You can download past copies, sign up free of charge to receive all new editions as they are released, and access our free vessel finder function by visiting www.theheavyliftengineer.com

QUALITY ASSURED

QUALITY 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 accredited with ISO 1090-1 Execution Class 4 and ISO 3834-2. Our IT systems are protected and accredited to Cyber Essentials Plus.



OUR SENIOR TEAM



GARY PATERSON

MALIN ABRAM - MANAGING DIRECTOR

Gary Paterson is our Managing 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 sea fastening design and global and local structural checks on vessels and barges.

CHRIS CAIRNS

MALIN ABRAM - COMMERCIAL DIRECTOR

Chris joined the team in 2016 and is the Commercial Director for Malin Abram. Chris graduated from Glasgow Caledonian University in 2011 with a degree in Quantity Surveying and spent 5 years with a worldwide oil and gas subsea contractor in Aberdeen, where he managed numerous high-profile tenders for major oil and gas projects. Chris is responsible for overseeing Malin Abram tendering activity, developing our client base and building strong customer relationships through developing bespoke transportation solutions.



JAMES BOWIE

MALIN ABRAM - ENGINEERING DIRECTOR

James Bowie began his career as a summer intern with Malin Abram, 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.

STEVEN THORNLEY

SALES DIRECTOR

Steven is Sales Director for Malin Abram, having joined the Group in 1994. With over 30 years of industry experience, spanning oil and gas, defence and offshore renewables, Steven brings a wealth of experience and insight to the team. He was part of the management buy out in 2012, after which he has worked to grow and diversify the Group's offering, and over the last 15 years this has given life to a number of additional, specialist companies, cementing the Group's place as a comprehensive provider of end to end marine solutions.



MARC MCGINLEY

MALIN ABRAM - BUSINESS DEVELOPMENT EXECUTIVE

Marc joined Malin Abram in 2023 after spending just under 3 years in the Recruitment and Client Services industry to the Offshore Energy sector. Marc brings with him a wealth of in-depth knowledge and customer relationship skills, which is teamed with an expansive network of relationships within the Offshore Wind and Oil and Gas sectors. A seasoned Business Development Executive, he will work to further deepen and expand Malin Abram's client base on a global scale.



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