THIS IS WHAT WE DO

02/03 The FROG-XT range FROG-XT4 04/05 FROG-XT6 06/07 FROG-XT10 08/09 TORO-4 10/11 The original FROG range 12/13 **Product Comparison** 14/15 Safety Features 16/17 HAWK Deck Motion Monitor 18/19 Buying and Renting 20 Parts and Accessories 21 22 Training 23 Servicing

24

25

Old School House School Hill Shortlanesend Truro Cornwall TR4 9DU

Partner Network

Contacts

Tel +44 (0) 1872 321155 Fax +44 (0) 1872 321166

info@reflexmarine.com www.reflexmarine.com







SUBJECT TO THE MOST RIGOROUS TESTING EVER, FROG-XT TAKES CRANE TRANSFER PERFORMANCE TO A NEW LEVEL

4 nor 1 n+ .___













SMALL FOOTPRINT ENABLES IT TO FIT IN A STANDARD SEA CONTAINER



OPERATIONAL WIND SPEED RANGE UP TO 40 KNOTS

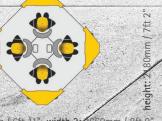


ABS Statement of Fact (By request)

MEDEVAC STRETCHER

CAPACITY FOR INJURED PERSONNEL •—





width 1: 2110mm / 6ft 11" width 2: 2660mm / 8ft 9"



STRETCHER CAPACITY

* ALL SPECIFICATIONS TAKEN FROM FROG-XT4 USER MANUAL REV 2.2 PROTECTS FROM FALLING AND WHIPLASH

STAINLESS STEEL FRAME

PROTECTS FROM SIDE IMPACTS



SPRING SUSPENSION SYSTEM
HIGH PERFORMANCE DAMPED COIL SPRINGS

BUOYANCY

IMMERSION -

SELF-RIGHTS AND FLOATS
IN WATER. PROTECTS FROM

SHOCK ABSORBING FEET

EROG×

INTRODUCING THE FROG-XT6

PROVIDING EXTENSIVE PROTECTION FROM THE 4 KEY RISKS OF PERSONNEL TRANSFER: FALLING, COLLISION, HEAVY LANDINGS AND IMMERSION

6 or 1 + .___













SMALL FOOTPRINT ENABLES IT TO IN A STANDARD SEA CONTAINER



OPERATIONAL WIND SPEED RANGE UP TO 40 KNOTS

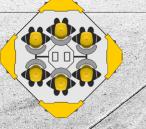


ABS Statement of Fact (By request)

MEDEVAC STRETCHER

CAPACITY FOR INJURED PERSONNEL •





width 1: 2110mm / 6ft 11" width 2: 2660mm / 8ft 9"

STRETCHER CAPACITY

* ALL SPECIFICATIONS TAKEN FROM FROG-XT6 USER MANUAL REV. 0.2



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SELF-RIGHTS AND FLOATS IN WATER. PROTECTS FROM **IMMERSION**

LOAD PLATE •

'EYE LEVEL' CONNECTION FOR SLINGS AND PRE-TRANSFER INSPECTION

QUICK RELEASE 3 POINT HARNESS PROTECTS FROM FALLING AND WHIPLASH

> **STAINLESS** STEEL FRAME

PROTECTS FROM SIDE IMPACTS



SPRING SUSPENSION SYSTEM HIGH PERFORMANCE COIL SPRINGS

SHOCK ABSORBING FEET

INTRODUCING THE FROG-XT10

OUR HIGHEST CAPACITY DEVICE ENABLES HIGH VOLUME TRANSFERS WHILST STILL PROVIDING THE SAME **GREAT LEVELS OF PROTECTION**

10 nr 2 + 2 .___













OPERATIONAL WIND SPEED RANGE UP TO 40 KNOTS



ABS Statement of Fact (By request)

MEDEVAC STRETCHER

CAPACITY FOR TWO INJURED PERSONNEL



BUOYANCY

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SELF-RIGHTS AND FLOATS IN WATER. PROTECTS FROM IMMERSION

> **QUICK RELEASE 3 POINT HARNESS**

PROTECTS FROM FALLING AND WHIPLASH

LOAD PLATE

'EYE LEVEL' CONNECTION FOR SLINGS AND PRE-TRANSFER INSPECTION

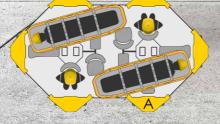
STAINLESS STEEL FRAME

PROTECTS FROM SIDE IMPACTS





width 1: 4090 mm / 13ft 5" width 2: 2660 mm / 8ft 9"



* ALL SPECIFICATIONS TAKEN FROM FROG-XT10 USER MANUAL REV 0.2

SPRING SUSPENSION SYSTEM HIGH PERFORMANCE COIL SPRINGS

SHOCK ABSORBING FEET

OFFERING ADVANCED PASSENGER PROTECTION WITH A SMALL FOOTPRINT ALONG WITH COST EFFICIENCY

4 nor 2 n + .___













OPERATIONAL TEMPERATURE RANGE -20°C TO +50°C / -4°F TO +122°F



SMALL FOOTPRINT ENABLES IT TO FIT IN A STANDARD SEA CONTAINER



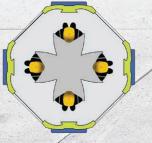
OPERATIONAL WIND SPEED RANGE: UP TO 40 KNOTS



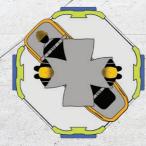


ABS Statement of Fact





width 1: 1988mm / 6ft 7 width 2: 2109mm / 6ft 11"



STRETCHER CAPACITY

MEDEVAC STRETCHER CAPACITY FOR INJURED PERSONNEL

> * ALL SPECIFICATIONS TAKEN FROM TORO-4 **USER MANUAL REV 02**



STAINLESS STEEL FRAME PROTECTION FROM SIDE IMPACTS PROTECTS FROM FALLING **BACK-UP LIFTING**

POINT

BUOYANCY

SELF-RIGHTS AND FLOATS IN WATER. PROTECTS FROM

QUICK RELEASE

HARNESS

AND WHIPLASH •



SHOCK ABSORBING FEET -

WHAT ABOUT THE ORIGINAL FROG RANGE?

FOR MORE THAN 20 YEARS THE FROG RANGE HAS PROVIDED EXTENSIVE PROTECTION FROM THE FOUR MAJOR RISKS OF PERSONNEL TRANSFER

800+
DEVICES
OPERATING
WORLDWIDE

20+ YEARS

LEADING THE WAY IN SAFER ACCESS SOLUTIONS With a proven track record in demanding environments from the Tropics to the Arctic, the FROG has demonstrated its reliability in challenging sea states and extreme weather conditions. There are over 800 FROGs in operation all over the world providing over 1 million safe crew transfers every year.

Reflex Marine has over 20 years' experience in personnel transfer operations and this has allowed for an improvement in almost every aspect of the new FROG-XT capsule design, resulting in greater comfort to passengers, wider operating parameters and higher capacity transfers.

IF YOU WOULD LIKE TO FIND OUT MORE ABOUT YOUR TRANSFER OPTIONS THEN PLEASE CONTACT A MEMBER OF OUR SALES TEAM AT INFO@REFLEXMARINE.COM OR TEL +44 (0) 1872 321155

Reflex Marine will continue to fully support all FROG owners in every aspect of product ownership including the supply of replacement parts and accessories, servicing, training as well as operational support. This support will be available for the recommended life-span of your product which is stated in your product's user manual.

The original model of FROG-6 will continue to be supplied and fully supported for existing customers and those with special certification requirements such as to meet national certification requirements in Brazil* and Mexico**



"Brazil specification model FROG-6, complete with 30ft lifting assembly (steel ferrules), data-plate stating Certificado de Homologação No. 211.003/2014, Portuguese language pack, tool kit and user pack.

"Mexico specification model FROG-6, complete with 30ft lifting assembly, data-plate stating Merchant Marine's certification no DGMM-DAF-009, Spanish language pack, tool kit and user pack.

CHOOSE YOUR MODEL



LOW VOLUME CREW TRANSFERS AND EMERGENCY USE



MEDIUM VOLUME CREW TRANSFERS

AND EMERGENCY USE

HIGH VOLUME CREW TRANSFERS

≈ FROGXT¹⁰



LOW VOLUME CREW TRANSFERS AND EMERGENCY USE





DIMENSIONS

DIMENSIONS



height: 2180mm / 7ft width 1: 2110mm / 6ft 11" width 2: 2660mm / 8ft 9"

width 1: 2110mm / 6ft 11" width 2: 2660mm / 8ft 9"

width 1: 4090 mm / 13ft 5" width 2: 2660 mm / 8ft 9"

width 1: 1988mm / 6ft 7" width 2: 2109mm / 6ft 11"

OPERATIONAL LIMITS

UP TO 4M SIGNIFICANT WAVE HEIGHT

UP TO 4M SIGNIFICANT WAVE HEIGHT

UP TO 3.3M SIGNIFICANT WAVE HEIGHT

UP TO 2.5M SIGNIFICANT WAVE HEIGHT

OPERATIONAL LIMITS

PASSENGERS

4 nor 1 n + .___

6 or 1 +.__

10 n 2 n + 2.___

4 nor 2 n+...

PASSENGERS

CAPACITY













height: 2180mm / 7ft







height: 2180 mm / 7ft







CAPACITY

MEDEVAC

CERTIFICATION

TEMPERATURE RANGE

MEDEVAC



ABS Statement of Fact (By request)



ABS Statement of Fact (By request)



ABS Statement of Fact (By request)





ABS Statement of Fact (By request)

-20°C TO +50°C / -4°F TO +122°F (STANDARD) -40°C TO +50°C / -40°F TO +122°F (ARCTIC)

-20°C TO +50°C / -4°F TO +122°F (STANDARD) -40°C TO +50°C / -40°F TO +122°F (ARCTIC)

-20°C TO +50°C / -4°F TO +122°F (STANDARD) -40°C TO +50°C / -40°F TO +122°F (ARCTIC)

-20°C TO +50°C / -4°F TO +122°F (STANDARD)

TEMPERATURE RANGE

CERTIFICATION

ALL SPECIFICATIONS TAKEN FROM FROG-XT⁴ USER MANUAL REV 2.2

ALL SPECIFICATIONS TAKEN FROM FROG-XT⁶ USER MANUAL REV 0.2 ALL SPECIFICATIONS TAKEN FROM FROG-XT¹⁰ USER MANUAL REV 0.2

ALL SPECIFICATIONS TAKEN FROM TORO⁴ USER MANUAL REV 02

REFLEX MARINE **SAFETY FIRST**

THE DESIGN AND SAFETY FEATURES INCLUDED IN ALL OF OUR DEVICES ADDRESS THE HAZARDS OF THE TRADITIONAL METHOD OF TRANSFER.

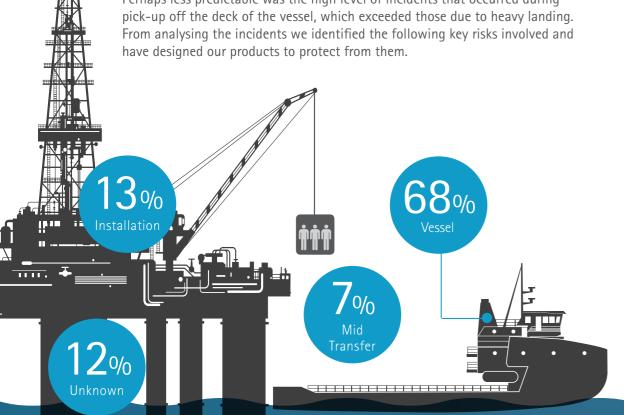
OUR TRANSFER DEVICES ARE DESIGNED FOR THE MOST DEMANDING OF SCENARIOS. TESTED TO THE LIMIT AND FULLY VERIFIED. WE KNOW EXACTLY WHAT OUR EQUIPMENT IS CAPABLE OF AND HOW TO USE IT.

TO UNDERSTAND THE RISKS INVOLVED IN MARINE PERSONNEL TRANSFER WE FIRST STARTED BY LOOKING AT PAST INCIDENTS.

We began compiling our own marine personnel transfer incident database as, unlike helicopters, there has been no centrally assembled database for marine transfers.

WHERE DO INCIDENTS OCCUR?

As expected, in our analysis the vast majority of incidents happen on the vessel. Perhaps less predictable was the high level of incidents that occurred during pick-up off the deck of the vessel, which exceeded those due to heavy landing. From analysing the incidents we identified the following key risks involved and



WHEN DO **INCIDENTS** OCCUR?

impacts.







17









The effectiveness of the frame, surroundings and seating position in protecting passengers was verified by a series of lateral impact tests.



VERTICAL IMPACT

A spring loaded seat base and shockabsorbing landing feet provide protection against heavy landings -even in the harshest weather conditions.

A series of drop tests in the design stages allowed us to verify the effectiveness of the suspension systems, and the integrity of the carriers as a whole.



FALLING

Passengers are protected by the outer frame and buoyancy and are secured by a three-point harness which still allows for rapid egress.



IMMERSION

Statistically speaking, immersion is a less likely risk and occurs only in more extreme situations. We design all our transfer devices to float and self-right if immersed in water.

Immersion testing is carried out in the

design phase for all our products and recordings are taken for different loading scenarios.



DECK CREW

We offer training to help deck crews have an appreciation of the risks and the best way to mitigate these. Our product user manuals contain recommendations on performing transfers safely.



TRIP ENTANGLEMENT

Our crane transfer devices are rigid capsules which naturally minimises the risk of trips or entanglements.

1@oldenrules

Together with Seacor Marine and Sparrows Offshore, we have created a set of 10 Golden Rules for the safe transit of personnel in the offshore oil and gas industry which we hope will become recognised as a global standard in transfer best practice.

These rules reflect what's been learnt from millions of transfers in varied conditions around the globe, with a focus on those few that go wrong. Crane transfer may seem a simple operation, but a wide range of variables are involved, and considering them carefully will help you to achieve a safe transfer every time.

www.reflexmarine.com/ 10goldenrules

MARINE TRANSFER FORUM

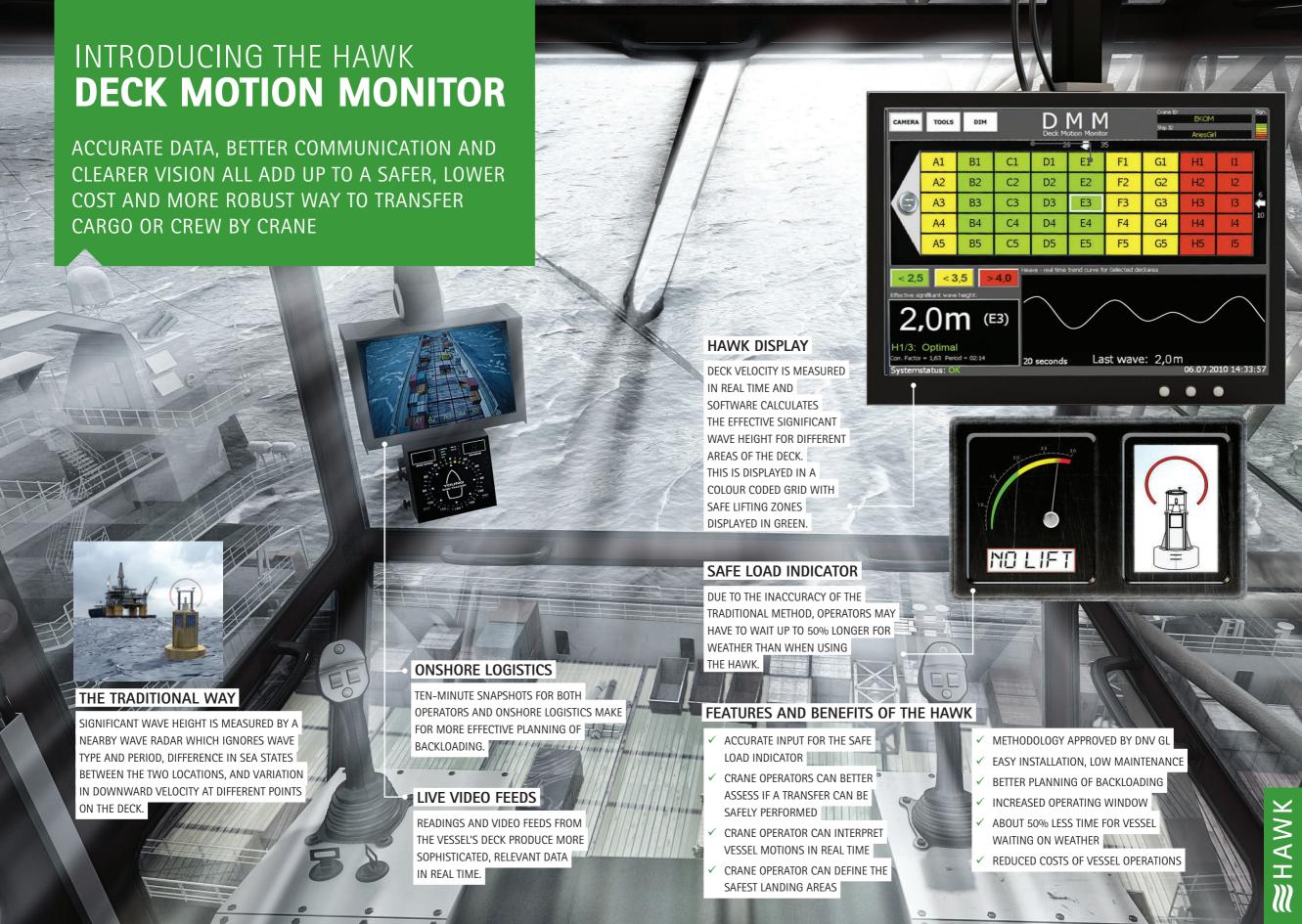
Reflex Marine are proud founding members for the Marine Transfer Forum along with other organisations showing leadership in this area.

MARINE **TRANSFER FORUM**

The Marine Transfer Forum is a new industry initiative, which will be run by an independent steering group from organisations such as operators, lifting and transfer specialists, regulatory authorities, and trade bodies.

www.marinetransferforum.org

* Statistics taken from Reflex Marine's Incident Database compiled from mostly publicly available data February 2014



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IT'S TIME TO **BUY OR TRY**

0

BUY FROM US

AN UNRIVALLED TRACK RECORD

Wherever you operate, however many people you need to transfer, whether you need a MedEvac capability or not, there's a crane transfer product that's right for you.

Major operators around the world have already placed their trust, and their crew's safety, in the FROG, FROG-XT and TORO ranges. Now with over 800 devices operating globally, and over a million safe transfers taking place each year, we have an unrivalled track record.

Manufactured in the UK, our products are stocked at our base in Aberdeen as well as regionally at our network of approved partners.

800+
DEVICES
OPERATING
WORLDWIDE



02

RENT FROM US

HELPING YOU CONTINUE OPERATIONS ALL YEAR ROUND

For projects and operations where a crane transfer device is only needed for a short period of time, such as during commissioning and decommissioning, or if you would simply like the opportunity to trial a device before purchasing, rental units are ideal.

Rental units can also be an important contingency when either your transfer device is being serviced or when unforeseen external factors, such as adverse weather, can prevent access using aviation methods.

We have transfer devices available for rental direct from our base in Aberdeen as well as being available from our network of approved distributors.

Each unit is maintained to the highest standard and is inspected between each rental.

Rental Periods & Availability

Our rental periods start from 30 days and go up to yearly rentals. Units are sometimes available at short notice, however we advise advanced booking.

For your nearest stockist to buy or rent please visit www.reflexmarine.com/contact



PARTS & ACCESSORIES FOR ALL PRODUCTS PAST & PRESENT

Replacement parts and accessories are available for all of our products, including our retired FROG range, direct from Reflex Marine or your local partner.

You can find information on exactly what is available in our product User Manuals which you can download from our website. Below is a list of some replacement parts, kits and accessories that we can supply:

- Critical Parts
- Foot Kits
- Harness Kits
- Backup & Handling Eye Kits
- Stretchers
- Protective Covers
- Strobe Lights
- Skid Trolleys

Holding a stock of replacement parts means your device is ready when you are, resulting in reduced lead times and down-time, lower packing and freight costs. It also simplifies the order process and having just one large order to clear customs, instead of multiple orders all being subject to delay throughout the year.

Please get in touch with us for a personalised stock holding as we can evaluate your fleet and determine the best items to hold in stock, dependent on the following factors:

- Number of Units
- Types of Units
- Usage Levels Usage Type
- obuge 175
- Locations
- Order History

For a quote Tel +44 (0) 1872 321155 support@reflexmarine.com

www.reflexmarine.com/ support

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REFLEX MARINE SPECIALIST TRAINING

YOU'VE BOUGHT ONE OF OUR WORLD-LEADING
TRANSFER DEVICES, NOW WHAT? HELP IS ON HAND
WITH OUR EXPERT TRAINING SERVICE TO HELP
YOU OPERATE AND MAINTAIN YOUR TRANSFER DEVICE

01

OPERATIONAL COURSES

Our operational courses focus on how to use our equipment. These courses are suitable for both passengers and operators of the equipment.

- Passenger Inductions. Duration: 2 hours
- Product Familiarisation. Duration: half day (includes theory and practical)

02

INSPECTION AND MAINTENANCE COURSE

The aim of this course is to induct mechanics and supervisors in the requirements and practice of unit inspection, maintenance and repair.

22

- Introductory Inspection and Maintenance Duration: 1– 3 days
- Includes theory and practical
- Includes certificate valid for two years

COME TO US

Scheduled events are run throughout the year, please visit our website for details on our next hosted training event.

OR WE'LL COME TO YOU

All of our training courses can be delivered at your facility and are run throughout the year.

ON LAND OR AT SEA

All of our courses are available onshore. Operational courses can be delivered offshore.

To book a course Tel +44 (0) 1872 321155 support@reflexmarine.com www.reflexmarine.com/training

REFLEX MARINE **EXPERT SERVICING**



FROM ROUTINE MAINTENANCE TO DAMAGE REPAIR,
REFLEX MARINE AND OUR APPROVED SERVICE CENTRES
HAVE THE EXPERIENCE AND EXPERTISE TO ENSURE YOUR
DEVICE'S OPERATIONAL INTEGRITY – AFTER ALL, WE KNOW
YOUR TRANSFER DEVICE INSIDE AND OUT

VISUAL INSPECTIONS
EXAMINATION BY DISMANTLING
LOAD TEST/POST LOAD TEST VISUAL INSPECTION
CRITICAL COMPONENT REPLACEMENT
REPLACEMENT PARTS
DAMAGE REPAIR
REPORTING AND CERTIFICATES







REFLEX MARINE PARTNER NETWORK

WE HAVE BUILT A NETWORK OF TRUSTED PARTNERS WHERE QUALITY AND EXPERTISE ARE ASSURED, PROVIDING YOU WITH FIRST CLASS OPERATIONAL SUPPORT

WHAT THIS MEANS FOR YOU:

Everything you need on your doorstep

- Approved Distributors
- Approved Service Centres
- Approved Training Centres

Local stock, training and servicing, all in a convenient location

Assured quality standards

- Confidence in the safety of the serviced product
- Assurance of the partner's overall standard of service
- Reduced risk to your operations

Additional benefits

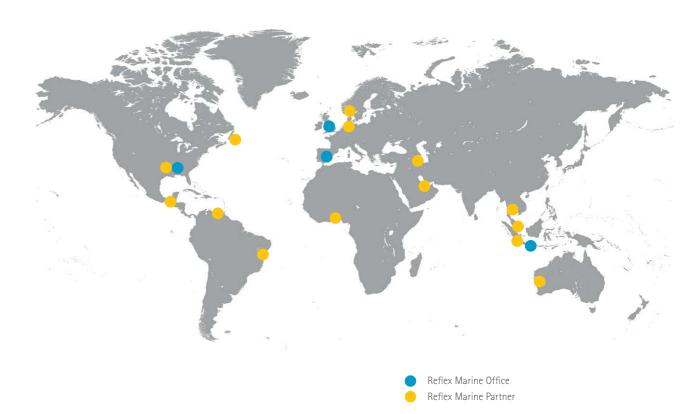
- Reduced potential downtime whilst transporting replacement parts from the UK
- Avoids commercial impact of maintenance delays
- Local rental of a FROG, FROG-XT or TORO for peak demands/servicing schedules



For your nearest
Reflex Marine Partner
please visit
www.reflexmarine.com/contact

REFLEX MARINE WORLDWIDE

WHETHER YOU'RE TRANSFERRING PEOPLE OR CARGO, WHICHEVER OFFSHORE INDUSTRY YOU'RE IN – A REFLEX MARINE REPRESENTATIVE WILL ALWAYS BE NEARBY, WHEREVER YOU ARE



UK Head Office

Tel: +44 (0) 1872 321155 Fax: +44 (0) 1872 321166

Sales & General Enquiries

info@reflexmarine.com

Technical & Product Support support@reflexmarine.com

