Fast worldwide underwater repairs
When we send a team to an operation, any operation, we have one goal in mind: to get the job done in the shortest possible time and to the highest standards. This has been our policy since Hydrex was founded in 1974.

We want to offer the highest quality of service for our customers. To achieve this we need staff who have familiarity with a wide range of operations as well as the relevant know-how. Our diver/technicians are trained and qualified to perform all class-approved repair procedures in even the harshest conditions.

This means that if a shipowner needs assistance, we are able to send a team of certified diver/technicians to the vessel immediately. They can carry out both simple and complex jobs. They do this uniformly without unnecessary loss of time, quality or safety.

Having a team you can depend on is of course not enough. That is why we have built long-lasting relationships with classification societies, OEMs and local support bases around the world. This allows us to quickly arrange spare parts, an engineer from the OEM or any external equipment needed for an operation.

We understand how important it is for a ship to keep her schedule. Going off-hire for days or even weeks to have underwater repairs carried out or pay an unscheduled visit to a drydock costs a tremendous amount of money. That is why we have developed technologies that allow us to perform underwater repairs within a very short time and to drydock standards.

In this brochure we give you a summary of the most important underwater repair services we offer. Feel free to click on the provided links for more information on a specific service. You can also contact us with any question you might have. Our technical advisors will give you fast and clear answers and will let you know whether an underwater solution is possible.
Fast response centers with state-of-the-art-equipment
Bow thruster operations

• Underwater repair and maintenance work in dry conditions
• Replacement or overhaul of full units
• Flexible mobdocks adaptable to tunnel size and ready for mobilization
• Thruster blade exchange
• In cooperation with OEMs
Propeller operations

- In-house developed cold straightening and cutting equipment
- Underwater or trimmed
- Balancing of propellers
- Afloat blade replacement
- Propeller modifications to improve efficiency
- Propeller cone fin installation to achieve fuel savings

For more information and case studies
Stern tube seal repairs

- Replacement of various types of shaft seals
- Flexible mobdocks adaptable to all kinds of seal assemblies
- Carried out underwater in dry conditions
- In cooperation with stern tube seal manufacturers

To view animation

CLICK HERE
Hull repairs

- Replacement of deformed or damaged hull plating
- Permanent insert or temporary doubler plate installation
- Class approved
- Using tailor-made mobdocks
- Commercial operations can continue during repairs
- Sea chest installation
- Scrubber overboard repairs

For more information and case studies

CLICK HERE
Underwater rudder repairs

- Afloat permanent repairs on any type of rudder
- In-house developed equipment allows engineers and inspectors to perform their tasks in dry conditions
- Cavitation repairs

For more information and case studies
Research & Development

- We take care of the engineering aspects of an operation
- Our R&D department continuously designs and develops repair techniques and procedures
- We find the most efficient solution
- This reduces cost and off-hire time for ship owners

For more information
Hydrex custom solutions

- For ships and underwater structures
- Out of drydock
- Feasibility, cost and time assessment
- Uses knowledgeable engineering and advanced underwater technology
- Expertise with water
Permanent insert repairs
Specialist class approved insert repair work carried out on a permanent basis. Providing a real alternative to drydock.

Emergency repairs
Fast response emergency repairs worldwide.

Inwater video inspections
Professional video surveys provide a reality of the problem and enable owners and classification surveyors to directly diagnose any problems.

Echo sounder inspection and replacement
Speed log
Checks for damage, marine fouling and replacement.

Bow thruster and propellers
Permanent on-site repair, maintenance and replacement with the award winning flexible mobdock technique.

Hull cleaning on suitable coatings
Bilge keel
Check and repair broken welds, renewal of sacrificial anodes.

Sea valves, sea chests and gratings
In-water inspection, cleaning and repair of intakes and valves, installation of new sea chests, condensers and coolers afloat.

Stern tube seal replacement
Permanent inwater stern tube seal replacements and repairs with the unique Hydrex flexible mobdock technique.

Propeller operations
Propeller cleaning with special tools, on-site blade straightening and cropping. Permanent repairs to all types of propellers or installation of propeller cone fins.

Rudder repairs
Permanent on-site repairs on all types of rudders with groundbreaking new technology.

Pintle and bushing repair and replacements

KEEPING SHIPS IN BUSINESS

High quality in-water ship repair and fuel saving services
Keeping ships in business

Headquarters Hydrex N.V. - Antwerp
Phone: + 32 3 213 5300 (24/7)
E-mail: hydrex@hydrex.be

Hydrex Rotterdam
Phone: + 31 10 313 25 19 (24/7)
E-mail: info@hydrex.nl

Hydrex Spain - Algeciras
Phone: + 34 956 675 049 (24/7)
E-mail: info@hydrex.es

Hydrex LLC - Tampa, U.S.A.
Phone: + 1 727 443 3900 (24/7)
E-mail: info@hydrex.us

www.hydrex.be