With more than 30 years of experience, IHC Hytech specialises in designing and manufacturing high-quality professional diving and hyperbaric equipment. We produce a wide range of standard and bespoke products, and also supply a range of third-party components and equipment. From the smallest components to full air dive spreads, our experienced design, project and manufacturing teams treat every item with the utmost care. We want our customers to achieve the highest level of safety and efficiency during their diving operations.

We have extensive experience in designing and manufacturing safe and reliable diving equipment for the saturation and surface-supplied diving markets. Each item is designed to meet the highest standards, and every product is supported by extensive quality control and after-sales service.

IHC Hytech supplies both the commercial diving and the governmental diving market. Commercial customers include offshore and inshore diving contractors. Governmental customers like navies, special forces, army engineering corps, customs and coastguards can have special requirements that we can meet as well. Examples include lightweight, transportable, containerized and low magnetic equipment.

IHC Hytech is part of Royal IHC. Through our combined knowledge and equipment, we are able to develop diving equipment in-house and are proud to literally say 'we keep you breathing'!

IHC Hytech designs and manufactures special hyperbaric equipment for governmental organisations including military, navy, special forces but also coastguard, customs, special police teams and fire brigades. Governmental organisations can have specific requirements, such as rapid response (fly away packages), lightweight, low magnetic profiles, transportable- or ship integrated solutions. We are able to offer diving systems that meet these requirements and can offer the total package as turnkey delivered projects.

Some of the versatile systems we manufacture include:

- (low magnetic) containerised decompression chambers
- mixed gas production units (EAN/oxygen)
- machinery containers
- dive control systems
- search and rescue packages
- fly away diving systems
- dive- / SAT Simulators
- submarine rescue systems.

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With divers’ safety on the line, we believe that decompression chambers should be easy to operate in order to avoid possible errors or losing precious time. That’s why we only use high-quality components and take special care to develop user-friendly systems with ergonomic layouts.

All decompression chambers can be custom-made to fit their applications precisely, from containerised units to installation in ships and buildings. We are also able to build decompression chambers with working pressures ranging from 50 to 400msw and according to any standard, including: Lloyd’s Register; ABS; DNV GL; and IMCA.

**DECK DECOMPRESSION CHAMBERS**

Our standard deck decompression chambers (DDCs) are suitable for two to six people. These two-compartment units are skid-mounted and have large lifting lugs for increased mobility. The comprehensive standard scope of supply assures DDCs can be operated comfortably and safely. In addition, they include large diameter double-hinged doors (Ø700mm) or rectangular doors, and a built-in breathing system (BIBS).

**DART AND ATEL**

The DART (diver attendant recompression transportable) is a small, lightweight transportable decompression chamber for one patient and one attendant. Due to its special shape and size, the DART is spacious enough to allow extended treatment times if necessary, yet small enough to transfer divers under pressure.

By supplementing the DART with the ATEL (attachable transportable entrance lock), it can be converted into a two-compartment chamber, allowing attendant entry.

**LAUNCH AND RECOVERY SYSTEM (LARS)**

Our diver handling systems are designed to lower and raise divers to and from subsea work sites. They are easy to transport and operate. The triple braking systems on each man-ride winch and the use of heavy-duty parts ensures maximum safety. Moreover, the clump winch can raise the manned cage in case of an emergency. The systems can be built under class and meet current IMCA rules. We also offer a LARS that is specifically tailored to heavy-duty operations. It consists of a robust, rigid and heavy base, an A-frame, winches and a cage.

**WET BELL**

Our wet bell handling system (WBHS) consists of a strong, rigid and heavy base and A-frame with sheaves, as well as a top frame with hydraulic winches. These can hoist the bell and its clump weight. The WBHS comes with a dive control container. The WBHS is an open system that can be integrated with a vessel. It can be completed with a containerised (20ft) decompression chamber and various additional diving materials, such as: hot water suits; a hot water supply unit; diving suits and helmets; and various underwater tools.
Ease of operation and reliability are key factors in both our standard and customised diving control systems.

**PORTABLE DIVING PANELS**
Our IMCA-compliant portable two or three-diver panels for surface-supplied diving are designed to simultaneously support two or three divers to a depth of 50 or 70msw. The panels are mounted inside a rugged plastic container and include a communicator, timers, and independent high pressure (HP) and low pressure (LP) supplies. The downstream pressure is adjustable and is suitable for air, nitrox, oxygen and trimix. Optional digital oxygen meters for analysing the breathing gas are also available.

**INTEGRATED SYSTEMS**
In addition to the portable systems, we can provide integrated dive control systems equipped with the same easy-to-operate control panels. These are suitable for installation in, for example, a container or trailer, a daughter craft and a vessel. They are configured to house all equipment and controls required for a dive operation.

**COMMUNICATION AND VIDEO RECORDING**
Reliable communication is an important aspect of saturation diving. IHC Hytech can provide communication units for any situation including: rack-mounted or portable; digital or analogue; helium unscramblers; electret or dynamic. We can also provide camera systems and lighting for video recording and monitoring.

We have teamed up with Survitec Group Limited – a global leader in survival and safety solutions – to design and build a self-propelled hyperbaric lifeboat (SPHL) for the evacuation of divers under pressure. The standard self-propelled lifeboat, with a saturation diving evacuation chamber suitable for 9, 12, 15, 18 or 24 divers, is SOLAS and DNV-GL approved. It is available with working pressures up to 400msw.

The GRP hull with main engine includes a bow thruster and all necessary navigation and propulsion equipment. It also features the “Queens Awarded” Safelaunch RocLoc patented Lifeboat Release and Retrieval System.

The interior of the diver evacuation chamber integrated in the SPHL includes CO2 scrubber systems, supply lock and a service hatch at the front. It also incorporates all life-support equipment including cooling and hot water production plants, clamping systems and spool pieces and a hyperbaric toilet. The SPHL offers autonomy for evacuated divers for 72 hours.

The optional life-support package (fly-away package) provides the essential services to a hyperbaric rescue chamber/SPHL when evacuated from the mother vessel (DSV).
COMPONENTS

HEATERS AND SCRUBBERS
In a decompression chamber, it’s important to maintain the right environmental conditions. For that purpose, we design and manufacture our own heaters and scrubbers. Benefits include:

• the use of non-corrosive materials
• high efficiency
• low-voltage DC
• RPM control
• an encapsulated motor.

MANIFOLDS, REDUCERS AND TUBING
IHC Hytech manufactures and delivers a wide range of high-quality components, which are specifically designed to meet the toughest standards in the industry. Examples include: flow fuses; reducers; analysers; manifolds; silencers; check valves; and Tungum alloy (aluminium/nickel/silicon/brass) tubing.

PERSONAL GEAR

Every diver needs adequate equipment. We can deliver a wide range of personal gear for specific diving tasks, including helmets and masks, suits, harnesses, knives and other accessories.

KIRBY MORGAN HELMETS
We are an official supplier of Kirby Morgan diving helmets, full-face masks and bandmasks. These commercial diving helmets and masks are of the highest quality and provide superior performance. Our range includes the extremely comfortable SuperLite® 27™, the widely used Kirby Morgan® 37 and the Kirby Morgan® 37SS. We can also provide training and maintenance for this equipment.

SUITS AND UNDERSUITS
We can help you find the right suits for all underwater environments, including: constant volume suits; dry suits; hot water suits; and suits made for heavy-duty work or for use in contaminated waters.

Using the right undersuit is also essential. The undergarments we supply are proven by years of field testing by the Norwegian Navy, the British Antarctic Survey Dive Team, the French Marines and the Danish Navy. Matching boots, gloves and hoods are also available.

HARNESSES AND JACKETS
Safety harnesses were once complicated and time-consuming to put on. The harnesses that IHC Hytech offers, reduce time and difficulty involved in putting on safety/recovery harnesses, bail-out bottle harnesses and weight belts. The strong base material of the harness distributes the load evenly across the body.
Every product that IHC Hytech makes or supplies is supported by extensive quality control and a comprehensive after-sales service. We offer a 24/7 service and can act rapidly to minimise the delay of your operation if any problem occurs.

Our services include:
- Maintenance of your system either on site or at IHC Hytech
- Supply of spare parts and consumables
- Renovation of existing systems
- Ensuring that your system is functioning correctly
- Certification.

Training
In order to keep our customers trained and up-to-date, IHC Hytech provides technical training courses on site or at our facility in Raamsdonksveer. We offer several standard courses covering the use of our systems and equipment. If required, we can also provide bespoke training courses tailored to large or small groups.