



YOUR SUBSEA SERVICE PROVIDER



OUR EXPERTISE



SATURATION & AIR DIVING



HYPERBARIC WELDING



ROV SUPPORT



DSV SUPPLY



ENGINEERING



SUBSEA NDT / INSPECTION



HABITATS / COFFERDAM



UNDERWATER CONCRETING

COMPANY PROFILE

The DCN Diving Group is a specialist subsea service provider delivering innovative engineering and subsea solutions for offshore oil and gas, renewable energy infrastructure, civil marine works and the shipping industry.

Services include engineering, air and/or mixed gas, and saturation diving. Highly specialized and experienced in hyperbaric welding and habitat operations, DCN also has a fully operational ROV department offering comprehensive services from Eyeball to WCROC support worldwide. DCN operates a fully-equipped Hyperbaric (and complying saturation set up) Testing Facility in Bergen op Zoom, the Netherlands.

Hyperbaric environments at pressures of up to 190m can be simulated at the facility, which is one of the few in the world. Welder coding and procedure qualification can be undertaken at the centre.

The group consists of 9 companies in 8 countries, and has a daily deployment of 80-200 personnel working world-wide. Over 60 years of experience in the industry, in-house engineering, fully owned equipment and certification based upon the latest IMCA and/or OGP requirements.



History

Formed in 1989 as a joint venture between Vriens Diving Company (founded in 1957 by W Vriens Snr.) and Raymakers, DCN was initially known as Vriens Diving. Important historical milestones include:

1970's — Development and manufacture of the first habitat for work on the 'Oosterscheldekering' (part of the Delta Works). During this project the Dutch Diving Tables were developed and tested and were named the Sterk-Vriens tables. The NDC (National Diving Centre) was also founded by W. Vriens during this period.

1980's — Development of saturation capabilities with the purchase of the first saturation system, used on projects in Newfoundland (Coredrilling from within a habitat) and Ekofisk, Germany (Soil Investigation). The saturation system was installed in a mineshaft to create a training facility.

1990's — Development of underwater concreting techniques and expertise. Most work was undertaken in Berlin Germany on the Potsdamerplatz (underground parking and tunnels) redevelopment after the Berlin Wall was dismantled, and the complete railway tunnel between Potsdamerplatz and Lehrter Bahnhof.

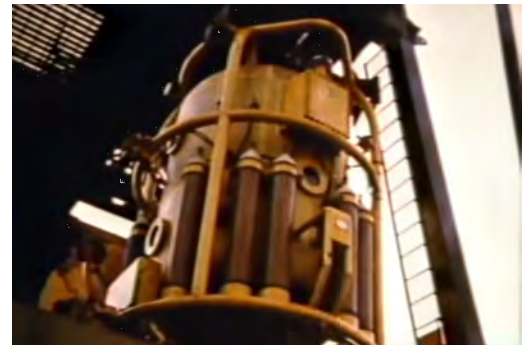
2000's — Several tunnels were build in the Netherlands and DCN worked on all these tunnelling projects, pouring the foundations using underwater concrete.

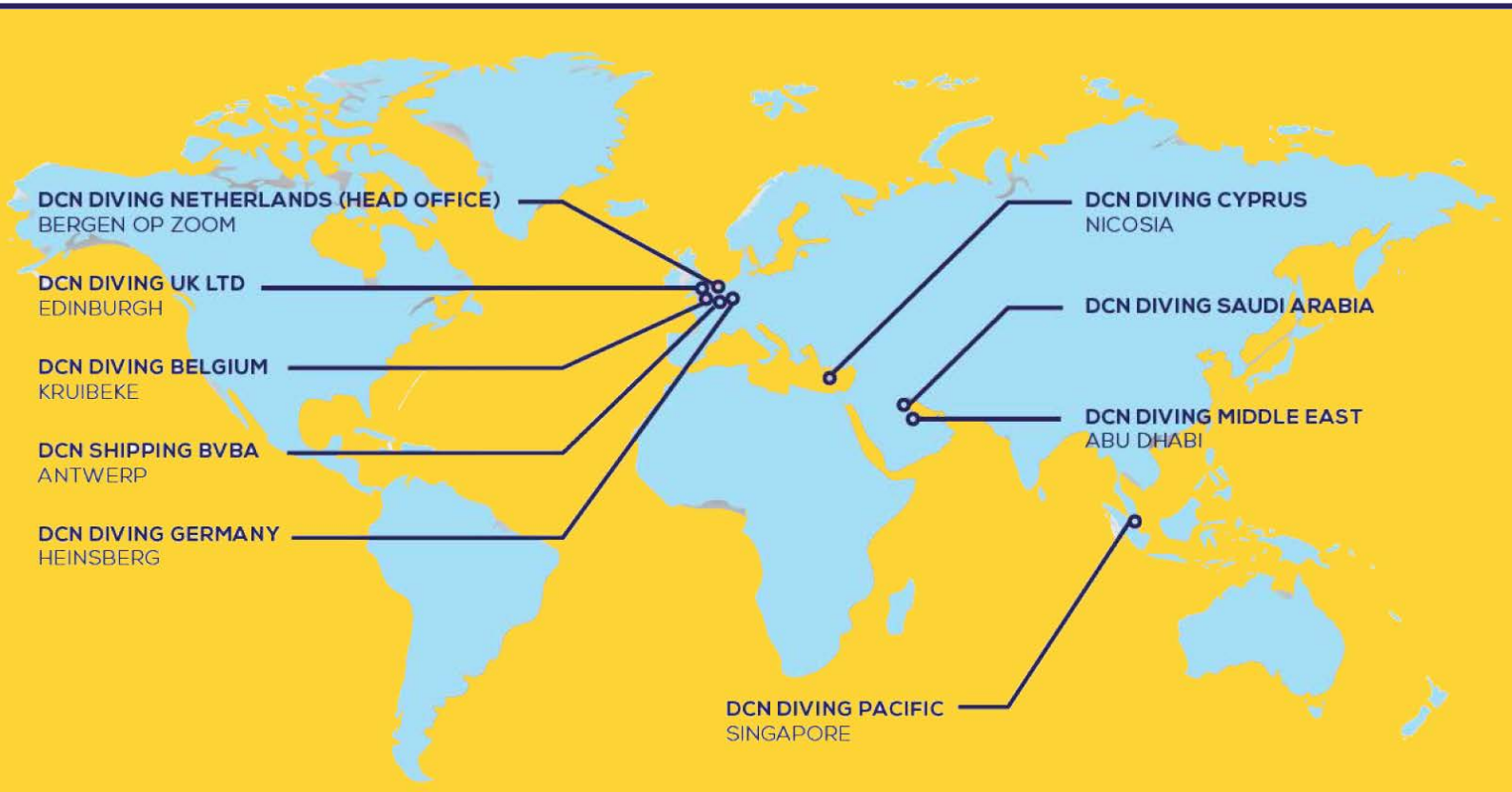
2010's — Change in focus from underwater concrete back to where it all started, namely offshore/hyperbaric operations with the successful completion of a number of hyperbaric projects. Development of the DCN Hyperbaric Testing Facility.

2010's — DCN heavily invested in new Saturation and Classed Air Dive systems and conducted several Pipeline Installation Dive support projects in Malaysia, Russia, Mexico and the North Sea. DCN upgraded its premises in 2018 with new workshops warehouses, storage areas and living accommodation.

Area of Operation

DCN operates globally from the operational bases in Europe. Recent projects include operations in Europe, Asia, North Africa, West Africa Middle East, Middle America, Russia.





Health & Safety

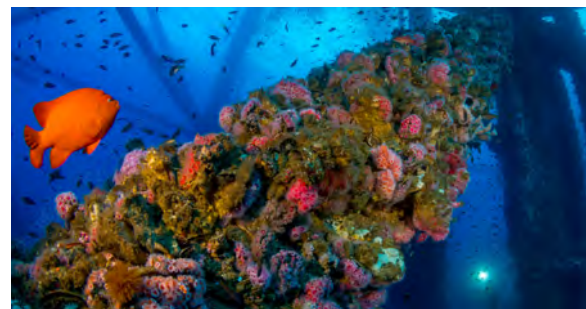
As an ISO 45001 and SCC** certified company and a member of IMCA, DCN Diving is deeply committed to achieve to highest possible standard of Health and Safety. This is achieved by:

- Continuous auditing by independent organisations;
- Providing training in essential Health and Safety skills;
- Ensuring a safe working environment for every employee;
- Emphasizing that everybody has the right to stop the job when considered unsafe or if there is any uncertainty of the task;
- Encouraging to report unsafe acts and conditions, near misses and accidents.

Environment

As an ISO 14001 certified company, DCN Diving is continuously seeking ways to keep its impact on the environment as low as reasonably practical. This is achieved by:

- Implementing a process of risk management at all stages of operations, to determine environmental impact
- Providing an environmental management system covering all operations, to guide personnel in daily activities and document control processes
- Correcting any negative environmental impacts resulting from operations and, where possible, remedying any harm caused
- Encouraging suppliers and visitors to respect the environment and follow the principles of the DCN policy
- Ensuring that all employees fully understand their roles in protecting the environment through induction, training and communication



Accreditation / Certification

DCN has the following accreditation / certification:

- Full contracting member of IMCA for Diving and ROV services
 - Management system certification and accreditation
 - ⇒ ISO 9001:2015
 - ⇒ ISO 14001:2015
 - ⇒ ISO 45001:2018
 - ⇒ SCC**:2017/6.0
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| <ul style="list-style-type: none"> • FPAL • Achilles • Bureau Veritas • DNV-GL • Lloyd's Register • ABS | <ul style="list-style-type: none"> • RINA • NADO • HSE • ADC • IRO |
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Full Member



Services

DCN is able to provide clients with the following support for EPIC construction and IRM projects and provides Diving Support Vessel to conduct the work:

Project Management and Engineering

- Provision of highly professional project management
- Engineered solution for any underwater problem
- Offshore and Civils Engineering
- Site / Project Engineers

Diving Services

For both inshore marine civils and offshore support including:

- Saturation diving – DCN owns & operates 3 saturation systems
- Surface supplied mixed gas diving
- Nitrox diving
- Air diving

ROV Support

The Seaeye Cougar XT is specially designed for handling strong currents, and can perform most observation or light work functions.

Hyperbaric Welding

A full range of services from the Procedure Qualification through to Production Welds, including:

- Hyperbaric welding and testing facility in the Netherlands
- Engineering – procedures for weld qualification
- Fabrication & design/fit out of habitats to client requirement
- Existing habitats to fit most applications and pipeline diameters
- Qualified personnel & equipment

Survey

A range of underwater diving/ROV surveys, including:

- Subsea Pipeline, Umbilical Installation Survey & Positioning
- Pipeline Route Survey, Pre-lay Survey and Post Lay survey
- Drilling Rig, Barge & Anchor Handling Tug positioning
- Jacket / Platform & Subsea Structure Installation
- FPSO Installation / Decommissioning Survey & Positioning
- Hydrographic Site Survey (Near shore/ Offshore)

Dry Space Creation

- Modification of existing habitats to meet client requirements
- Design & manufacture bespoke habitats
- Range of cost effective cofferdam solutions to create open air working environments underwater
- Deployment and operation of habitats & cofferdams

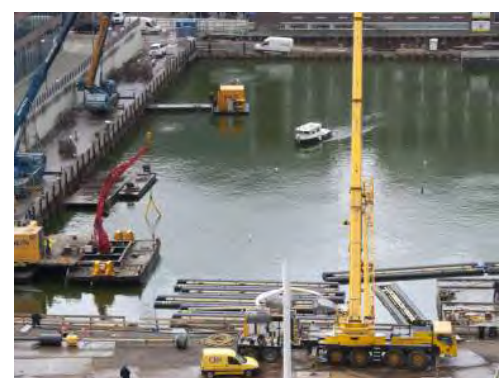
Habitats create a dry environment typically used to undertake a range of critical subsea tasks, including:

- Welding
- Repairs / refurbishment of piles, sheet pile walls, locks and gates
- Inspection
- Cleaning and clearing tunnel boring machine heads
- Concreting

Self-propelled habitats to enable divers to operate in confined spaces where long distances limit free access to the surface and so prevent unaided diver intervention.

Underwater Concreting

- Consultancy
- Preparation of procedures
- Excavation & Site preparation
- Patented technology and propriety systems
- Pouring of concrete and site dewatering after concrete setting



Resources

Hyperbaric Welding Centre

Full service Hyperbaric Welding Centre for hyperbaric welding trials, Procedure Qualification Record (PQRs) and welder coding

Saturation System 02

300 msw, 9 man classed Saturation System to IMCA guidelines and ABS, 3 man bell, HRC

Saturation/TUP System 03

200 msw, 8 man Saturation System to IMCA guidelines, 3 man bell, HRC and specially designed for TUP/bounce diving operations

ROV Support

SAAB Seaeeye Cougar XT — Class II Observation Class ROV with Tether Management System. The vehicle has a depth rating of 1000msw and a forward speed of 3.8 knots. DCN is able to engineer some bespoke modifications / attachments for specific applications.

Decompression Chambers

Twin lock decompression chamber contained in an air conditioned 20ft container and including diver control panels, communications & CCTV system

Class Air Diving Systems

DCN has invested in full Air Diving spreads; Dive Control, Decompression Chambers and Launch and Recovery systems fully classed.

Nitrox Diving Systems

Complete Nitrox generation and diver control system - containerised in air conditioned 20ft container including compressors, gas storage, communication and CCTV systems

Launch and Recovery Systems and Mobile Dive Platforms

Diver launch and recovery systems to IMCA guidelines including; redundancy and back up breathing gas for operations to 50m

Launch and Recovery Systems - Wet Bells

Diver launch and recovery systems as per IMCA guidelines including; redundancy, wet bell (to create a safe haven) and back up breathing gas for operations to 75m

Hyperbaric Habitats

Various habitats of different sizes including; redundant power, life support, heating and filtration systems

Self-Propelled Habitats

Self propelled habitats including; redundant power, life support, heating and filtration systems

Remotely Operated Cleaning Machines

Remotely operated cleaning machines including control containers

Specialist Underwater Concreting Equipment

Proprietary and exclusive systems are available including the Concrete-Surfer, Valve-Surfer, Vibrating Plate and Monitoring GPS System

Underwater Inspection Equipment

Various diver operated and ROV operated equipment and probes for CP readings and underwater inspections



Hyperbaric Testing Facility

DCN operates a fully-equipped Hyperbaric Testing Facility in Bergen op Zoom, Netherlands. Hyperbaric welding environments at pressures of up to 190m can be simulated at the facility, which is one of the few in the world. Welder coding and procedure qualification can be undertaken at the centre.

The completely separated welding chamber is suitable for welding and testing with a working pressure of up to 200 meter. The atmospheric conditions, for example humidity, can be completely adjusted to the requirements of any specific project. The facility has practically no size limitations: it is designed to test pipes with a maximum diameter of 48 inches.

The testing space is a safe environment to work with polyesters, glues and patching mortars, which are forbidden to evaporate in open air. The test center is not only being used for welding, but also for the testing of welding robots, ROV's, diving systems, control systems, hydraulic motors and kink arms.

The Hyperbaric Testing Facility also is a training facility for our divers. In the welding chamber 2 to 3 divers can work at the same time. However, they must be qualified to work at 200 meter. The welding chamber runs separately from the overpressure system where the divers sleep.

The Hyperbaric Testing Facility includes a separate control room and saturation diving chamber, with living accommodation including shower and laundry facilities.

Hyperbaric Testing Facility:

- 200m Depth rated
- 280m Test pressure rated
- Insert pipes up to 72"
- Humidity control
- Fume Extraction
- Training facility for divers
- Hyperbaric medical treatment facility
- Living accommodation
- Suitable for:
 - Welding
 - Moulding
 - Pressure Testing



Clients

