



## **HYDROSPYDER**

**The HydroSpyder is a floating deployment tool. Inspired by the water boatman insect, which uses surface tension to walk on water, our HydroSpyder can be propelled to any point and is able to deploy a wide range of different tools.**

Available in different sizes, our initial design lifts up to 18 tonnes under water and, like all our tools, can be operated with precision from a remote location.

HydroSpyder is a remarkably useful device. Its buoyancy can be varied and, using its hydraulic legs, it can alter its size to manoeuvre into restrictive areas. Using on-board cameras, it provides the operator with a clear view of the environment and the work being undertaken.

Each HydroSpyder is custom built to the exact client specification and is scalable depending on the precise requirements of the work being undertaken.

[www.barrnon.com](http://www.barrnon.com)

### **KEY POINTS**

- Easily manoeuvred to any point
- Can deploy a wide range of tools
- Remote operation
- Variable buoyancy allowing controlled sinking
- Custom built to client specification
- Lifts and transports up to 18 tonnes underwater



## A SMART SOLUTION

The HydroSpyder was developed in response to a challenge that is frequently faced in nuclear ponds. We needed something capable of heavy lifting which didn't rely on existing pond infrastructure.

We also needed flexibility – a mobile unit that could get into areas that were difficult to access. To complicate matters, the unit had to have its own propulsion system and be capable of being remotely controlled.

The answer to all of these challenges and more is the first floating crane that's totally independent of pond infrastructure. Using remotely controlled hydraulics it can alter its shape to reach otherwise inaccessible areas. Its variable buoyancy also allows it to sink in a controlled fashion.

## For more information on HydroSpyder

Visit: [www.barrnon.com](http://www.barrnon.com) | Call: 017683 53440 | Email: [andy@barrnon.com](mailto:andy@barrnon.com)



## ANDY BARR

Barrnon, MD and chief designer, Andy Barr has over 20 years' experience in product development and has worked across many industry sectors. HydroSpyder is one of his recent patented inventions and it was designed to work alongside Barrnon's suite of nuclear decommissioning tools.

Andy often draws his inspiration from nature – in this case, the water boatman insect - and has a reputation for lateral thinking that delivers surprisingly successful results.

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## HYDROSPYDER DEVELOPMENT

Active and passive HydroSpyder prototypes have already been developed, tested and displayed to the **National Nuclear Laboratory**.

Each HydroSpyder will be built to client specification, taking into consideration the individual nuances of each nuclear clean-up operation.