

# Patented Magnet System

developed by



# Abfad

Industrial Rope Access • Tank Lining Systems



[www.abfad.co.uk](http://www.abfad.co.uk)





**Patented Magnet System**  
Developed by Abfad Limited



With its engineering experience, the Abfad team have focused on bringing innovative, cost-effective solutions to common engineering problems. While primarily designed with the offshore industry in mind, these solutions have a multitude of uses and can be applied equally effectively to land-based operations.

A prime example of this is our patented permanent magnet units that have proven invaluable in areas that can only be accessed by rope but need a method of moving the rope technician closer to the substrate to be worked on and anchoring them securely to facilitate the various works to be carried out.

The market for these magnets we believe is huge and we have produced our latest model which provides superior performance.

Abfad's deployment of this unique magnet system provides a productivity advantage. Its use increases speed of work such as blasting, St3 mechanical surface preparation, welding, drilling, NDT inspections etc. as they secure rope access trade persons to steel substrate providing precision quality work.

## Ongoing R & D

Providing Innovative Patented Solutions to Engineering Problems



Abfad's patented Magnet System has been developed for rope access technicians by rope access technicians, as a need for this type of device was discovered whilst working on certain jobs, other methods of working were found to be time consuming, lacking in efficiency and in some cases completely ineffective.

The Magnet System has been used by Abfad on many projects and tested rigorously, including by the TWI (The Welding Institute) who have also tested the pull off strength of the magnets.

## **Abfad's Patented Magnet System**

Providing Innovative Patented Solutions to Engineering Problems





Serial no 00100 Pull off 368kg

Serial no 00101 Pull off 402kg

Serial no 00102 Pull off 390kg

**Serial no 00103 Pull off 422kg**

Serial no 00104 Pull off 410kg

Serial no 00105 Pull off 378kg

Serial no 00106 Pull off 364kg

Serial no 00107 Pull off 398kg

Serial no 00108 Pull off 410kg

Serial no 00109 Pull off 402kg

## Magnet Certification

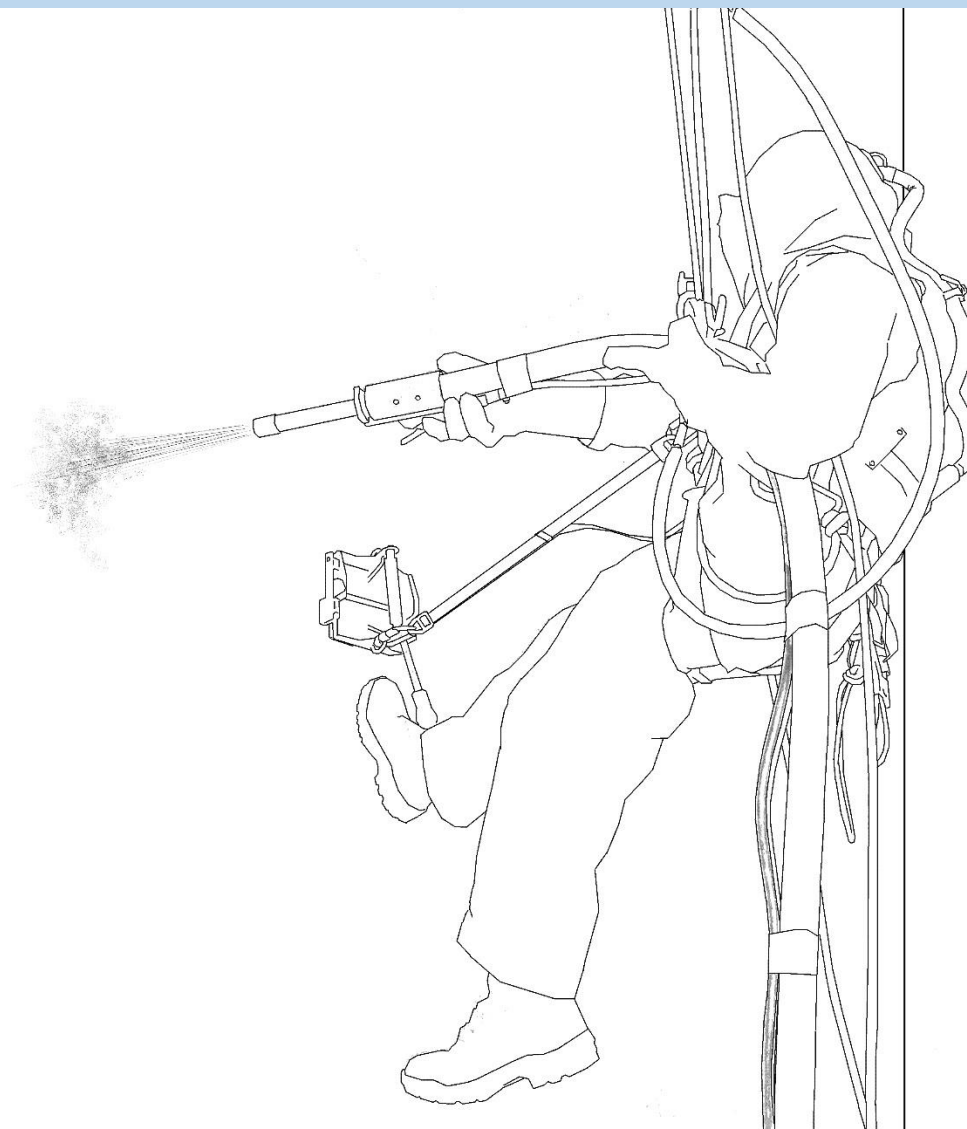
STANDARD TEST – static pull test on 50mm segmented ground plate

Whilst this Magnet System was initially designed for use with rope access and the challenges faced when working on difficult to access structures and surfaces, it can also be utilised in many different ways by many different industries, such as, by divers for marine salvage and underwater survey, fabrication yards as plate lifters, they can be used by smaller ships to lock into a larger one, construction activities, we have also had interest in using our Magnet System as an emergency door release.

## **Abfad's Patented Magnet System**

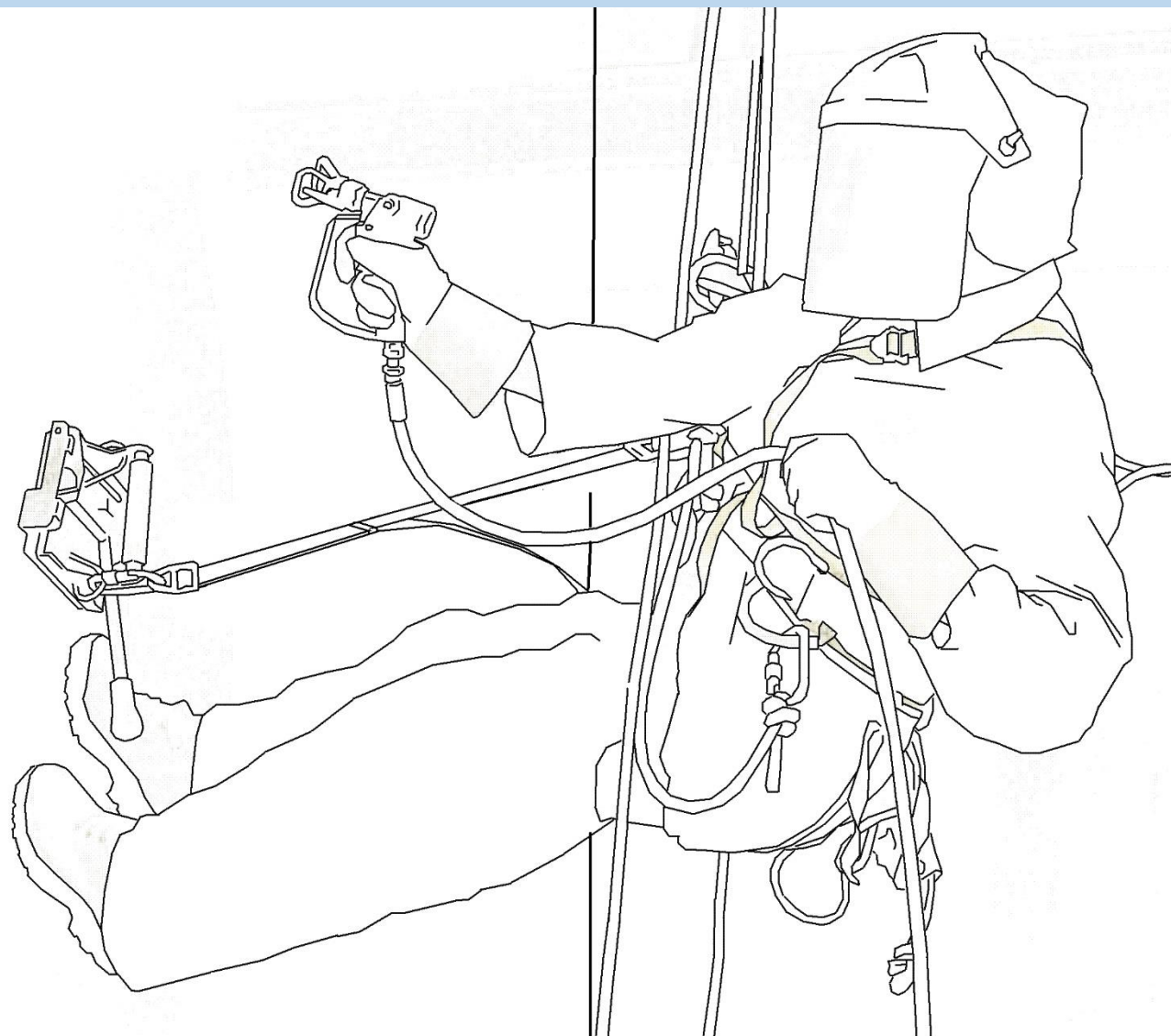
What can the Magnet System be used for





## Patented Magnet System in Use

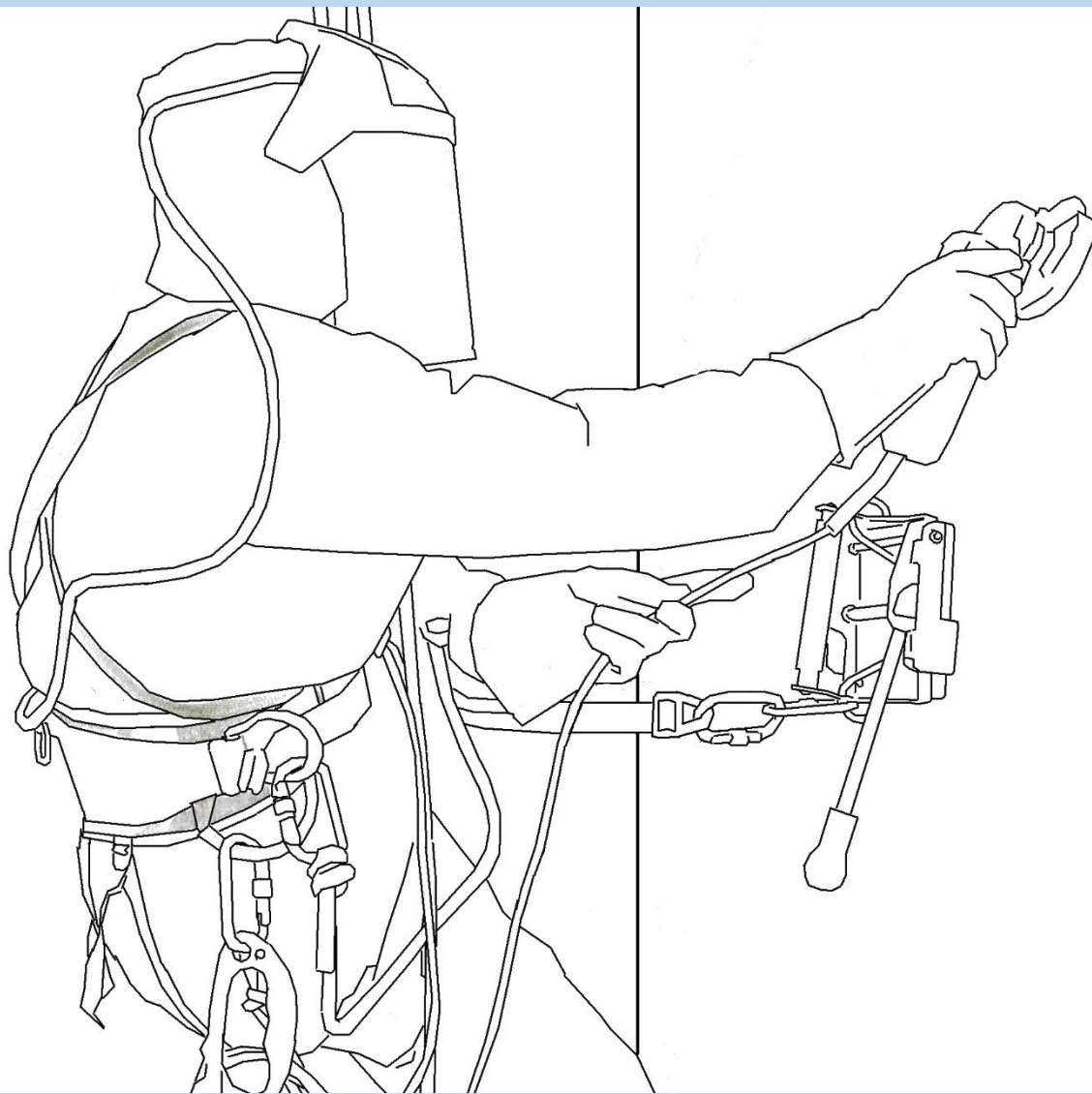
Example using Magnet System in conjunction with blasting from ropes



## Patented Magnet System in Use

Example using Magnet System in conjunction with spraying from ropes





## Patented Magnet System in Use

Example using Magnet System in conjunction with grinding from ropes



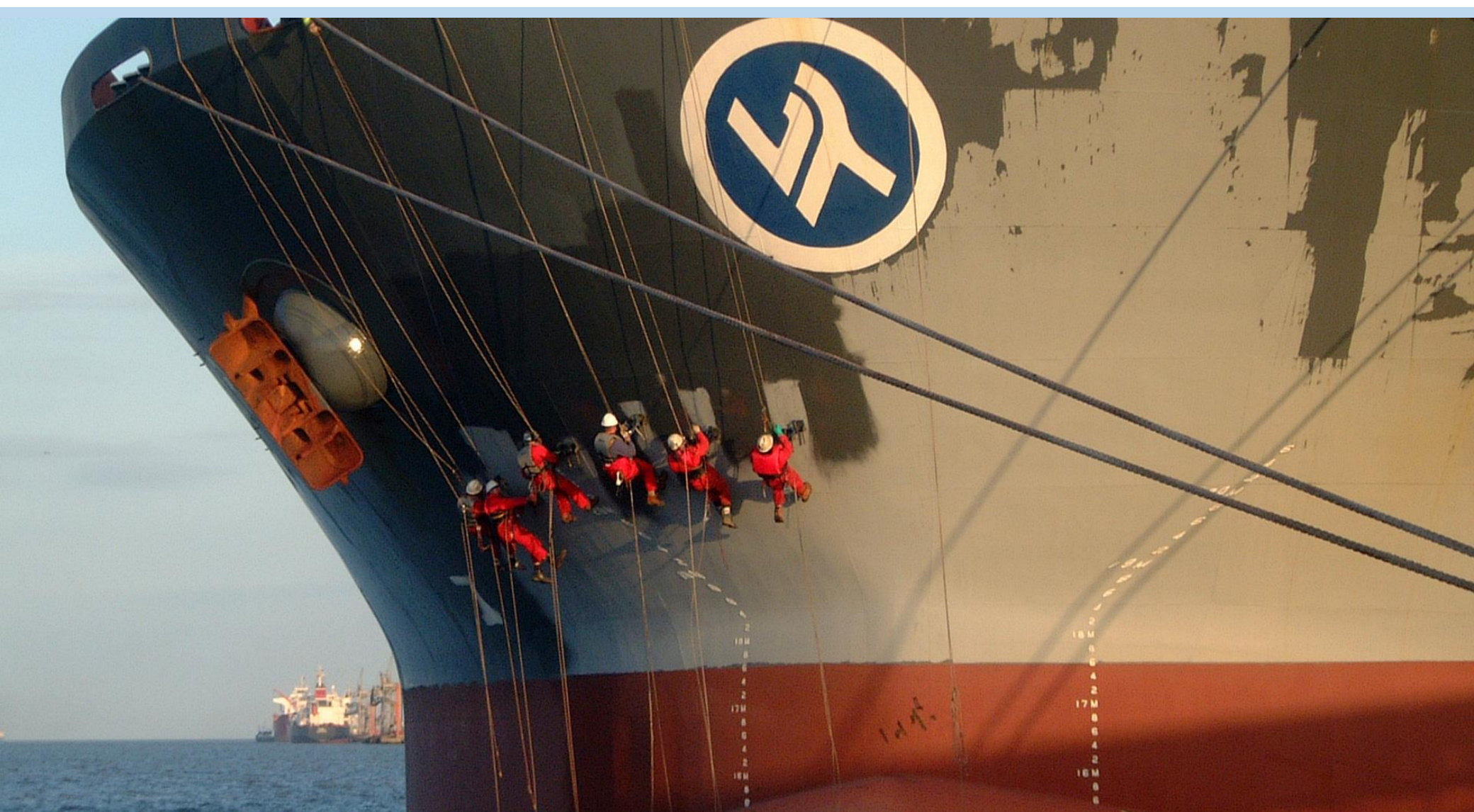
## Patented Magnet System in Use

Example using Magnet System in conjunction with welding from ropes



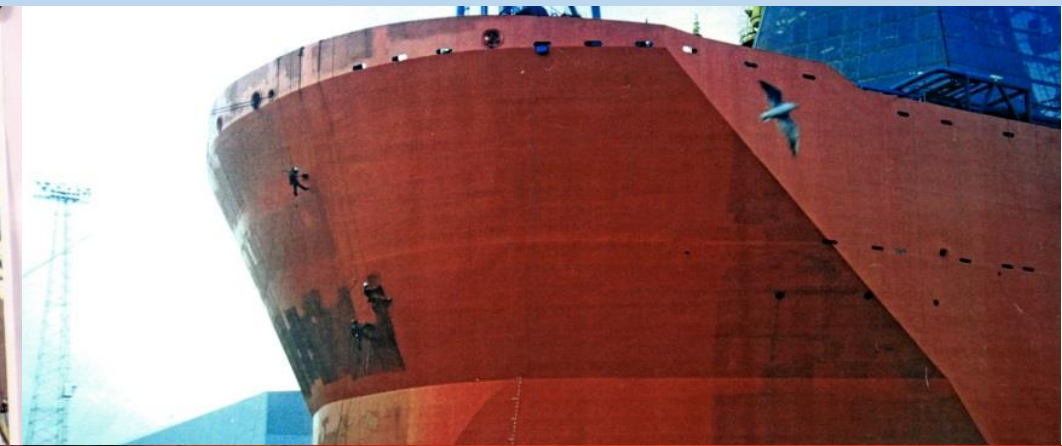
## Thalassini Kyra

Coating repair by use of rope access and Magnet System



## Thalassini Kyra

Coating repair by use of rope access and Magnet System



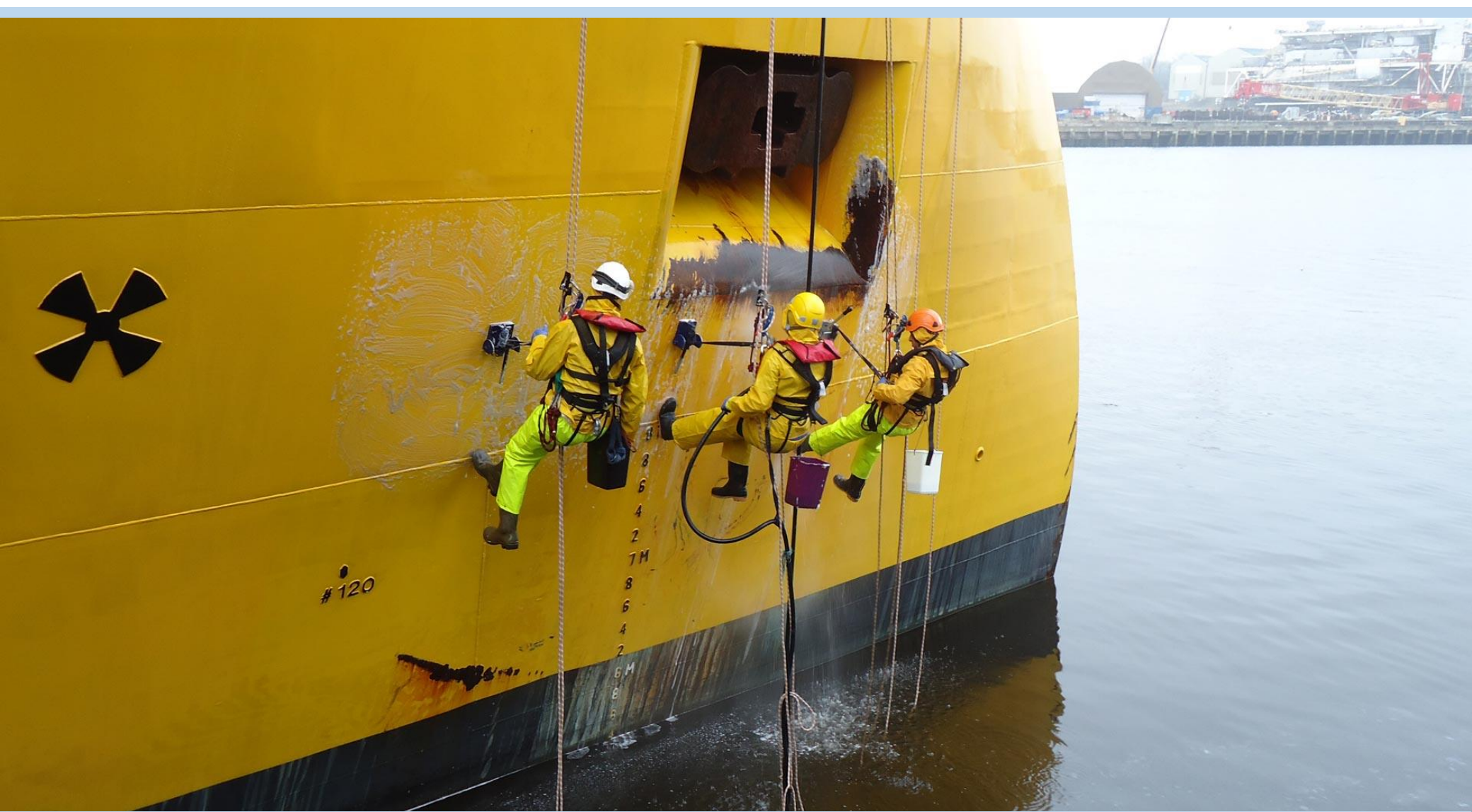
## BP Schiehallion

Cosmetic coating of complete vessel by use of ropes and Magnet System



## Blister/Ballast Tank Construction

Welding by rope access and secured in position by Magnet System



## Industrial Cleaning

Cleaning vessel by use of rope access and Magnet System



**HMS Warrior, Portsmouth**  
Hull cleaning made easy with Magnet System

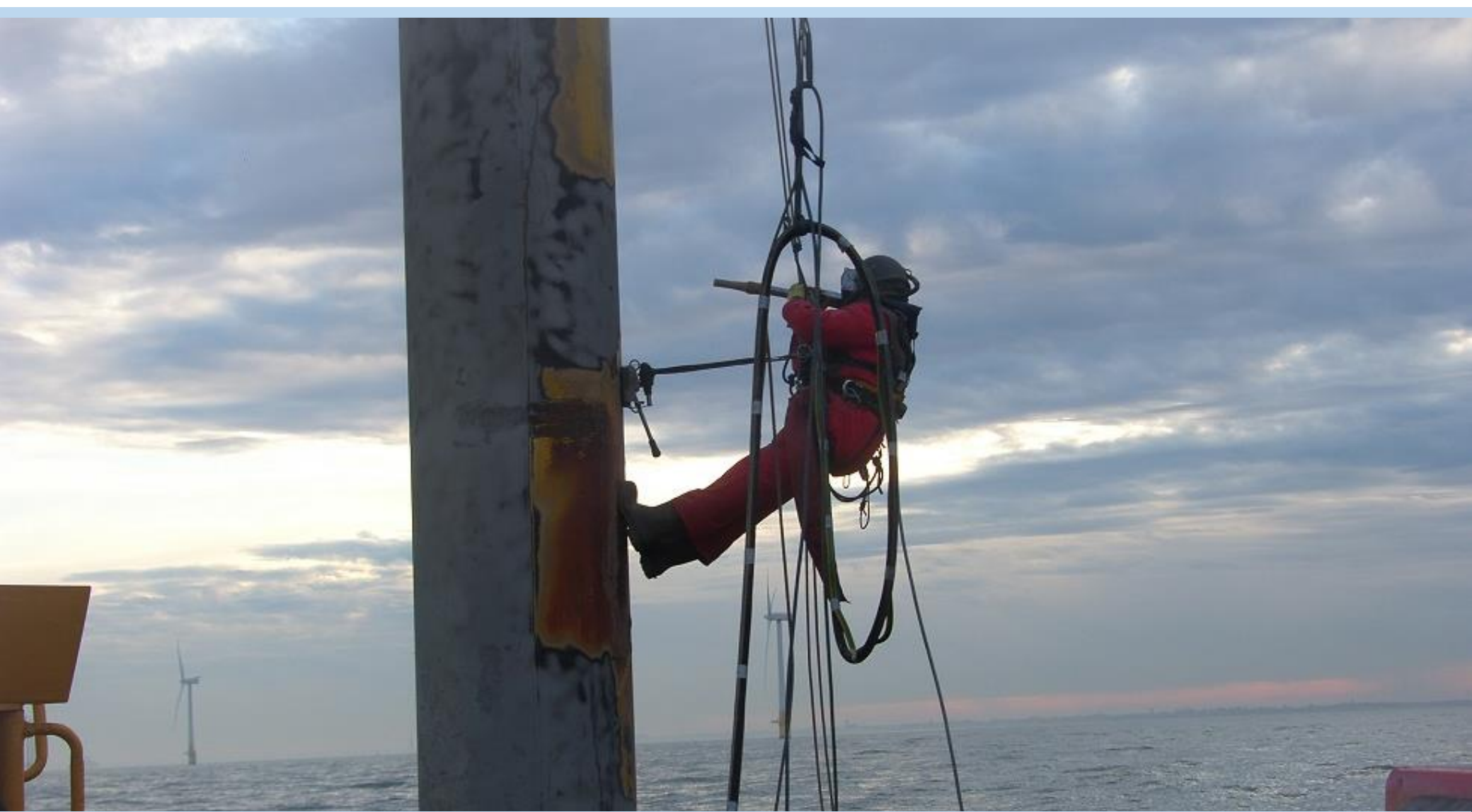




## Scroby Sands Windfarm, Great Yarmouth

Monopile coating restoration blasting by use of rope access and Magnet System





**Scroby Sands, Offshore Met Mast**  
Blasting mast by use of rope access and Magnet System



**Visit [www.abfad.co.uk](http://www.abfad.co.uk) for more information**  
Including pricing and how to purchase this unique Magnet System



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T:+44(0)191 543 7166 - E:info@abfad.co.uk

Registered Office: Unit 8, Teal Farm Way, Teal Farm Park, Washington, Tyne and Wear, NE38 8BG

