



The Rothen Group

Maintaining Britain's waterways

## Contract Services

REPAIRING, RESTORING & MAINTAINING THE INLAND WATERWAYS

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**CANAL & RIVER TRUST**

Daniel Barnett, London & South East Contract Manager for CRT;

*I have no hesitation in recommending The Rothen Group, the team have demonstrated competence, safety and flexibility in the delivery of the work for The Trust, effective regular communication and reporting has been key in ensuring we are delivering a robust value for money service for our customers.*

**BREHENY**

Simon Andrews, Senior Project Manager for Breheny;

*We approached The Rothen Group due to the specialist nature of the works required. We needed to work with experts who could provide solutions to a set of challenges, including overcoming the narrow environment of the canal. The Rothen Group had trained operatives, and the unique plant and machinery equipment needed to stabilise and complete piling works in preparation for building the new bridge.*



Our **VERSATILE** fleet can be used across the country to facilitate all types of inland waterways whether it be for hire, marine contracting or operated plant.

We have a **PASSIONATE** team who strive for excellence; in the quality of workboats sent on hire, operating the boats; or delivering a civil engineering project.

Our team of **EXPERT** engineers are able to provide 24hr response time to problems.

We pride ourselves on having a **PRAGMATIC** approach to projects and can advise clients on the best way forward for hires or contracts based on cost, time & outcome needed.

Our use of **INNOVATION** leads to delivery of your project; with potential to specially adapt pieces of kit, fabricated to suit your needs.

“ We had little experience working near canals or with the Canal and River Trust, so wished to engage the services of a company who could carry out these specialist services. Upon meeting The Rothen Group, it was clear they had significant experience to carry out the scope of works required in this challenging environment. ”

David Easter, Site Surveyor for Galldris at Greenford Green

### Case Study: Greenford Green

**Site:** Glaxo Smith Klein Factory Site, Greenford Green, London

**Date:** September 2018 - February 2019

- Input into design of the bank protection required & finish
- Liaising with Canal & River Trust engineers and clients to approve design
- Sourcing specialist suppliers for one-off copings with exacting finishes
- Undertaking piling works including all marine plant & experienced team
- Laying copings to landscape architect specification

### Piling

**Our expert team can advise you on the best piling methods and materials.**

Our knowledge and pragmatic advice will help you find the best solution for your project, considering both ground conditions and the application of the pile, we can ensure the piling is suited to your needs.

Knowledge of which piles or bank stabilisation technique to use for each site can save you considerable costs and we are confident in assessing whether steel sheet piles, timber piles, plastic piles, nicospan or gabion baskets are appropriate. We have the ability to carry out works from either floating plant or from the land depending on site constraints.

Once the piles are driven there are a variety of options for backfilling and reinstatement which we are able to advise on and carry out for you.





### Soft Bank Protection

**There are different types of soft bank protection including; nicospan, coir rolls, rock rolls & gabion baskets. We can advise on the best option.**

Nicospan is an environmentally sensitive bank protection can provide a high quality and economical form of erosion control. This is more suitable for smaller watercourses or sites where low usage and wear will occur.

However, when used with coir rolls the benefit of its 'open pocket' structure enables vegetation to grow through the protection and therefore create excellent habitat and is therefore used on more ecologically sensitive sites.

Through sensitive backfilling and seeding the original bank can quickly re-establish and flourish. We are more than happy to advise on the best backfill and seed mixes for your requirements.



### Dredging

**We have extensive experience in carrying out all types of dredging on inland waterways.**

Our proactive, knowledge based approach ensures even the most difficult canal or river dredging; of moorings, winding holes, bridges, non-navigable waterways, attenuation features or lakes can be undertaken.

We have a range of floating plant and machinery to accommodate any sized site and facilitate removal by water or road to deposit sites for drying and reuse as topsoil or compost. We are more than happy to discuss your needs and undertake a site visit free of charge, to assess the best approach for you. Using floating dredgers, modular pontoons or long reach excavators, we can accommodate your project needs. In addition we are fully licensed to dispose of your material in a cost effective manner which ensures low environmental impact.



## Aquatic Vegetation Management

We have large range of weed cutting and harvesting boats. These have been specially adapted with different baskets, cutting heads and rakes to ensure all types of floating, submerged or blanket weed can be dealt with. The attachments can also facilitate depositing to bank or into a hopper.

Some boats come complete with a trailer for easy offloading from the bank, straight into the water. It has twin propulsion augers to cope with very dense reed growth and strong river currents.

We have experience in restoring and maintaining waterways including lakes, disused canals, rivers and other inland waterways. Bank clearance works can also be carried out using the side arm to clear bank vegetation from the water, in difficult access sites.



### Case Study: London Waterways

**Site:** Central London

**Date:** April 2019 - October 2019

BEFORE



AFTER



The Rothen Group were asked by Canal & River Trust to assist with the management of weed along 20 miles of London's waterways for 6 months.

The project involved:

- Mobilising and operating up to 6 weed boats with experienced operators
- Understanding access restrictions, working on busy navigational waterways and liaising with general public
- Dealing with invasive species
- 'Innovative thinking' and versatility to generate an effective & efficient standard of work resulting in high productivity
- Designing our boats to be able to deal with floating weed, thick blankets of weed, submerged weed and marginal reeds
- Being proactive with working to a set route & plan, but reactive to 'hotspots' around the capital
- Daily and weekly reporting to liaise with CRT and other third parties
- Providing operated tugs & hoppers for removing the weed
- We removed 6600m<sup>3</sup> of weed (equivalent to 383 African elephants) & 400m<sup>3</sup> rubbish

## Other Marine Engineering

### Marinas

**The Rothen Group carries out a wide range of marina maintenance and construction for both private and corporate clients.**

Whether at the bottom of your garden or within a large, existing marina we are able to advise and deliver the best solution for your moorings needs, from wooden jetties to steel piling etc.

The ongoing maintenance and upkeep of marinas is challenging. We have comprehensive experience in this maintenance from the dredging of silt to landing stages and the creation of new mooring berths and slipways.

### Other

**The Rothen Group also undertakes the following maintenance and contracting works as detailed below:**

**Waterway restoration:** Clearance along banks and in channel of aquatic vegetation along feeder arms, disused waterways, ditches etc. Construction and repairs of structures such as headwalls, outfalls etc.

**Working in Heritage Areas:** where sand bag walling and other historic methods are required to retain the integrity and aesthetic of the waterway.

**Landscaping & towpath resurfacing:** Creation of new towpaths or resurfacing with resin, tarmac or gravel. Design and installation of landscape features either within private or commercial properties.

Through our sister company Rothen Ecology, we have CIEEM accredited ecologists who adopt a proactive and pragmatic approach to ecology. Their wide ranging and extensive knowledge ensures projects run smoothly whilst protecting the environment.



### KIER

Darren Hampshire, Project Manager from Kier;

*Over 300 meters of the bank had collapsed and needed replacing. We have worked with The Rothen Group with success on similar projects so knew that their approach, extensive fleet and trained operatives would be well suited to tackle this particular job.*

### BENTLEYS

Colin Wilkinson, Senior Project Manager at JN Bentley;

*Having worked on similar projects before, The Rothen Group demonstrated a high level of appreciation for and understanding of the risks involved, while confidently explaining how they would manage these. This comprehensive approach has paid of dividends, with a potentially tricky site being dealt with professionally and promptly throughout the programming and delivery. Expertise from the ecological arm of the business was also an added benefit due to the time sensitive nature of the works being completed and the location on a site of scientific interest.*

*“Throughout the duration of the project, standards have been very good – including health and safety protocols. The productivity of the team also met our high expectations and we’ve since received compliments from our client regarding the quality of the works.”*



## Other Plant

The Rothen Group has a range of machines to sit both on or off our floating craft. These range from 0.5 to 8 tonne diggers with/without canopies for ease of moving under low bridges on the inland waterways, to tracked dumpers, breakers or post drivers.

These lightweight machines are ideally suited for towpath works where low impact is integral to CRT's weight restrictions.

All the Kubota diggers are fitted with check valves to comply with LOLER and enable the excavator to be used for lifting operations. They are also marine ready with bio oil as standard. Long reach arms are available for all sizes of diggers.

These come with a range of attachments including breakers, piling hammers, post drivers, flail heads, clamshell buckets and standard buckets.

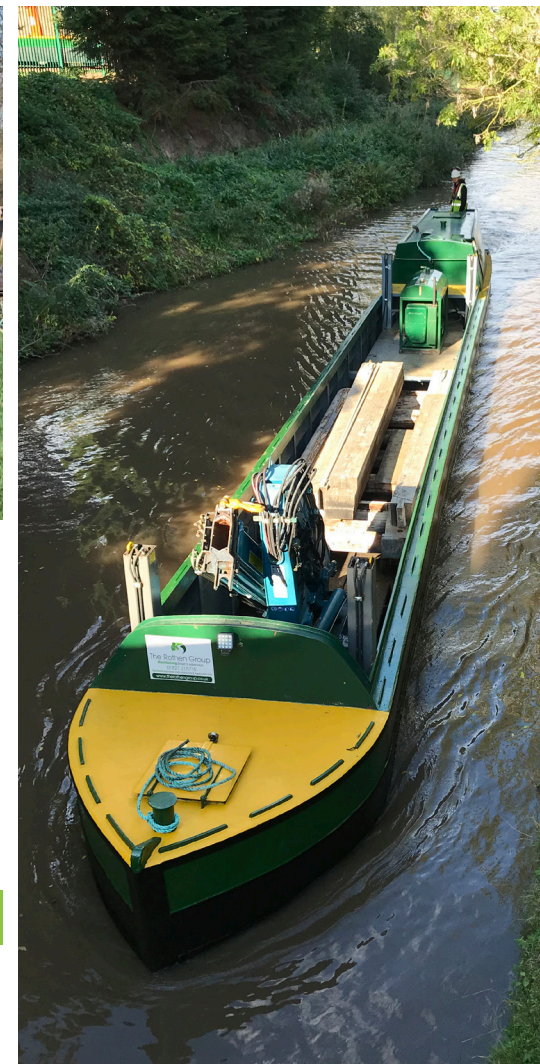
In addition, we have a large range of bespoke piling hammers available to suit all ground conditions and environment. They can be adapted to fit all piles types, posts etc

Our range of other small plant includes: tracked dumpers, small hydraulic post drivers, hydraulic breakers, whacker plates, coping stone lifters, petrol cement mixers.



  
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TURN THE PAGE FOR  
PLANT WORK BOAT HIRE



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## Plant & Work Boat Hire

CRANE BOATS / PONTOONS / TUGS & WORKBOATS / PLANT

therothengroup.co.uk 01827 215715

The Rothen Group is the leading supplier of specialist narrow & wide beam floating plant in the UK.

Our boats have been custom built and adapted for specialist use based on our knowledge of working in a marine environment.

We are able to hire boats out for self-operation as well as providing experienced operators. All our boats are road transportable and available nationwide.

The boats and pontoons can be fitted with a wide range of equipment or welfare facilities to meet your needs.

## Pusher Tugs, Powered Workboats & Hoppers

The Rothen Group have an extensive range of wide and narrow beam pusher tugs and hoppers, workboats and punts that can be used in a variety of applications.

If depth is a consideration shallow drafted tugs would be ideal; although small, they still have the pushing power for moving large hoppers. If materials need to be transported we have both insulated and large capacity boats.



Welfare is available in both the pusher tugs & powered workboats, along with dedicated welfare pontoons and pods. We also hire survey/inspection boats and safety boats.

These boats can be hired with or without an operator. Depending upon the type of boat required, transport is either via the waterway network, hiab lorry or our small crane van and trailer, making facilitating boats to difficult access sites easier.

We have a range of hoppers from 16ft to 70ft long these materials hoppers can accommodate all types of loads and work. Our popular 40ft materials hoppers are transportable by hiab lorry and can be stacked for more cost effective and and fast mobilisation.



### Digger & Crane Pontoons

**We have a range of specialist excavator, crane and operating platform pontoons.**

These pontoons are capable of transporting excavators up to 8 tonnes to awkward access sites, where the machine can either be tracked off the pontoon to work or it can operate from the pontoon itself, with the stability legs down. The machine can be tracked up and down the pontoon to work with no danger of the boat capsizing.

We have both narrow beam and wide beam digger and crane pontoons to suit all canals and inland waterways. They are fitted with a small hydraulic power pack which operates the four stability legs creating an extremely stable working platform. The shallow draught of the pontoons also make them ideal to work in shallow waters, but the stabiliser legs can enable working in water up to 3 m.

The pontoons are modular which pin together and weigh c. 6 tonnes with each module weighing no more than 1.6 tonnes giving a unit which is easy to transport and assemble via a Hiab lorry.

The pontoons are highly adaptable, with side stability sponsons which swing round to enable them to fit through narrow bridges and locks. The crane pontoons are able to transport and lift lock gates, making them ideally suited to lock replacement works as well as piling etc.





## Crane Boats

We have an extensive fleet of crane boats to suit all demands and applications; from barge mounted cranes and grab cranes to narrow and wide beam crane boats.

The crane boats are self-propelled and highly maneuverable. We have 40ft, 50ft and 70ft crane boats for a range of applications from piling, nicospan, dredging or lock gate replacement works. There is a mix of seated controls for optimum visibility and usability and electric controls to allow the crane to be controlled from a safe distance when loading heavy lock gates.

All our hiabs can be fitted with a variety of attachments from lifting hooks, clamshell buckets, piling hammers to post hole borers. Fitted with hydraulic stabilize legs and cranes with a reach of up to 8m these vessels are extremely versatile whether you are piling, dredging or carrying out lifting operations.



We have small, medium and heavy duty cranes, with the largest capable of lifting 8t and the maximum reach at 21m. All the crane boats have hydraulic stabiliser legs to create a stable platform for working. Some contain water tight skips for carrying materials, such as dredgings, concrete, clay etc.

The carrying capacities vary from 3t up to 20t to enable materials or plant to be transported to awkward access sites. These vessels can do the job of a dredger/piling boat, pusher tug & hopper, being able to load, remove and deliver materials to site and then discharge itself.