



The Rothen Group
Maintaining Britain's waterways

Contract services

DREDGING AND REED CLEARANCE / PILING / MARINAS AND MOORINGS

therothengroup.co.uk 01827 215715



The Rothen Group offer a wide range of Civil engineering and maintenance services on Canals, Rivers, Lakes and Non navigable waterways.

With extensive experience in carrying out works including:
sheet piling, dredging, reed removal, waterway engineering,
Nicospan bank protection and specialist project advice.

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.



Nicospan

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.



Reed & Weed Clearance

The reed and weed cutting boat enables The Rothen Group to cut and remove reed from canals, rivers, lakes etc but also to cut vegetation from along the banks with our flail head attachment on the side arm

It comes 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.

Marinas and moorings

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.

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.



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 all 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 bespoke range of piling hammers available from our sister company RG Piling Hammers. (insert RG piling hammer logo)

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



Crane Boats

We have a range 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.

The grab barge is fitted with a 6.3m reach grab crane, hydraulic stabilizer legs and two removable water tight skips for containing materials. This one vessel can do the job of a dredger, pusher tug and hopper, being able to load itself, remove or deliver materials to site and then discharge itself. It has a carrying capacity of 20 tonnes, making this vessel ideally suited to carry out spot dredging or delivery materials to sites with poor access.



Tugs, Workboats & Hoppers

The Rothen Group has a range of pusher and powered tugs, workboats and punts that can be used in a variety of applications. If depth is a consideration, we have shallow draught boats both powered and unpowered or if materials need to be transported we have both insulated and large capacity boats. We also hire welfare and survey/inspection craft.

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 and can be stacked for more cost effective and quicker transport.



The Rothen Group have the largest fleet of specialist narrow beam floating plant and pontoons 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.

Crane and Excavator Pontoon

We have a range of specialist machine transporter, crane and operating platform pontoons.

These pontoons are capable of transporting machines of 2.5-8 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.





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