

# GEO-STRUCTURAL

Diamond Drill and Saw Division

tel. **01236 843 009**

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**www.geo-structural.co.uk**





## About us

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Geo-Structural Ltd Diamond Drill and Saw Division operates from our main depot in the Central Belt of Scotland.

We provide specialist drilling and sawing services, including diamond drilling, stitch drilling, wall sawing, hydraulic bursting, floor sawing and controlled demolition.

We pride ourselves on the quality of the service we provide to our clients across the UK. We are committed to the Construction Skills Certification Scheme and ensure all our works are carried out with the highest safety standards. All of our staff hold extensive qualifications and are tremendously experienced in their particular field.

We are a registered company with qualified technicians available for hard to reach or difficult areas to access. All of our technicians are fully IPAF, PASMA and CSCS Qualified.

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Open: **9am - 5pm, Monday to Friday**



# Diamond drilling

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## Efficient, accurate and adaptable drilling services

Using the latest diamond drilling technology, Geo-Structural provides an outstanding masonry and concrete drilling service. Our team can drill openings in almost any material and to almost unlimited profiles.

With extensive experience across a range of industries, we believe there is none better suited to take on your drilling project. Our specialist drilling team is are ready to take on any project, ensuring you receive the highest quality service possible.



- ▶ Reduced vibrations
- ▶ Minimised noise
- ▶ Significant dust reduction
- ▶ Highly efficient technique
- ▶ Drill into a range of materials
- ▶ Clean cut openings
- ▶ Range of opening diameters
- ▶ Range of opening lengths

# Stitch drilling

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While diamond drilling is substantially more efficient than conventional alternatives, openings are limited by the maximum size of the drill bit. When a client requires an opening larger than 1500mm, we recommend using a process called stitch drilling.

Stitch drilling overlaps drilled holes to create a string of openings. Using this technique we can create an opening of any shape or size. Stitch drilling is the preferred option in a number of environments, including difficult access and underwater sites.



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# Wall sawing

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## Specialist sawing for horizontal surfaces

Using high cycle electric and hydraulic wall saws Geo-Structural can cut into reinforced concrete, brickwork or stone to form precision cut openings for windows, doors and other fittings or purposes.

Our specialist lightweight wall saws mean our team can provide wall sawing services in virtually any environment and to extremely tight timeframes.

# Hydraulic bursting

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Hydraulic bursting is one of the safest means to weaken reinforced concrete, brickwork or stone in preparation for removal.

Hydraulic bursting uses a non-percussive hydraulic action in pre-drilled holes to force apart the surrounding material. Once the integrity of the material has been broken down, manageable sections can be easily removed by a variety of methods.

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# Floor sawing

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## Excellent quality work in any environment

Floor sawing is commonly used for hard flat surfaces such as pavements, motorways and runways. We are also able to undertake interior floor sawing projects. Our extensive range of floor sawing equipment allows us to cut 700mm into reinforced concrete or asphalt.

# Specialist sawing

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## Flexible sawing services in any environment

Our specialist sawing teams use diamond ring saws, chainsaws and stihl saws for a variety of applications. We typically use specialist sawing equipment over other diamond cutting techniques when a site has restricted access.

Working with the latest sawing equipment, our highly skilled and experienced teams can guarantee clean corners, precise cutting and incredibly effective works.

# Controlled demolition

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## Experts in safe controlled demolition

With a successful history planning and managing demolitions, we consider ourselves a leading provider of controlled demolition services. Whether a demolition is carried out through hydraulic bursting, hydrodemolition or robotic demolition, no other organisation can match the quality, efficiency and safety of our service.

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# Our Projects

## Haymarket Tunnel Edinburgh

- ▶ Client: **Major Railway Contractor**
- ▶ Service: **Tunnel lining repairs**

### Summary:

The tunnel lining was cut in 1m wide sections during short night shift track possessions using hydraulic diamond chainsaws to allow the masonry to be broken out before being replaced with reinforced shotcrete.

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## Saltcoats Sea Wall Repairs

- ▶ Client: **Major Railway Contractor**
- ▶ Service: **Wall repairs**

### Summary:

100mm diameter, 600mm long vertical holes were formed in the existing concrete toe beam of the sea wall using hand held core drills to allow grout to be pumped into fill voids in the base of the wall.

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## Winchburgh Tunnel Blockade

- ▶ Client: **Major Railway Contractor**
- ▶ Service: **Tunnel Boring**

### Summary:

50mm diameter, 1500mm long vertical holes were formed in the bedrock to install dowels to fix the new track slab in place.

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## Garden Street Viaduct, Kilmarnock

- ▶ Client: **Major Railway Provider**
- ▶ Service: **Cintec Anchor Installation**

### Summary:

Our work on the Garden Street Viaduct involved installing over 200nr full-width Cintec anchors. Our team cored 80mm diameter holes to depths of up to 21m into the viaduct as part of the installation process. The contract was valued in excess of £400,000 and, due to extremely accurate and efficient diamond coring techniques, was completed over 2 months before the estimated project completion date.

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# Contact Details

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