

Laser-guided Auger Boring

TRENCHLESS TECHNOLOGY



Install gravity drains

Install cable ducts, water and gas pipes

Drill under buildings, roads, gardens etc

Designed to work in small areas

50 metre shots in one operation

Launch above or below ground

Drill in poor ground or conditions

Drill vertically as well as horizontally



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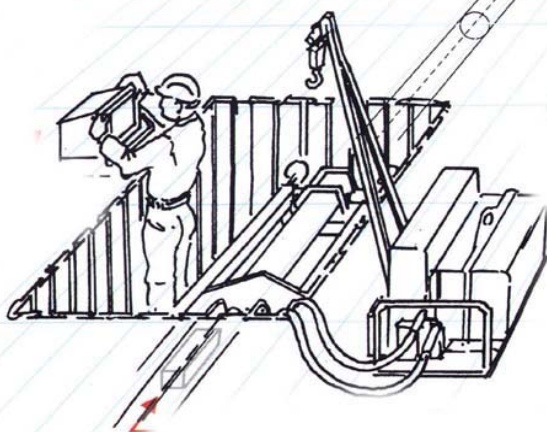
LASER-GUIDED AUGER BORING

WHAT IS IT?

The innovative laser-guided auger boring machine utilises the latest modern engineering techniques. Its power, accuracy, size and capability make it an invaluable tool in the world of trenchless technology.

If you want to install a gravity sewer underneath a building, road, pathway, stream, runway, railway track, or in difficult ground using large diameter pipe, then it is most likely that laser-guided auger boring would be the most suitable platform.

Laser-guided auger boring also allows us to drill gravity drains, water mains and conduits where trenching is not an option. Running sand and gravels



CASE STUDY

Stone House, Gloucester

The project: To install and connect a new drain for 30 houses, at a depth of nearly 15m, which had to be installed under a landfill site.

The solution: The shafts were dug first and the laser-guided auger borer was lowered by crane and set in position. We managed to install the new run without having to dig any trenches, or deal with any contaminated land. The drain was installed in a few days with huge cost savings over alternative methods.

HOW DOES IT WORK?

Laser-guided auger boring operates from a pit, approximately 2.5 metres in diameter. The depth of the pit is slightly deeper than the depth of the intended new pipe, thus allowing us to start drilling at the required invert. This differs from many of its counterparts, such as ground launched drilling platforms, as the ability to start drilling when already at the required depth enables laser-guided auger boring to work in more confined locations, saving time and ultimately expense.

When sat in the pit, the auger borer drills towards a receiving pit at the end of the required run. If the soil conditions require it, a chemical agent will be sprayed when creating the bore to keep it intact. The progress of the drill head is constantly monitored whilst it is creating the bore to ensure it drills exactly where intended. If the drill head is going off course, it is able to change direction both horizontally and vertically using the laser guidance system, which is accurate to 1% over 50meters.

Once the drill head has reached the receiving pit, the casings are jacked in, which allows the augers to drill out the ground. Finally the ceramic pipe is pushed in displacing the casings until the run is complete.

Contact the office for data sheets on the other services we provide:

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- PIPE TRACING
- CONTAMINATED LAND SURVEYS
- SITE INVESTIGATIONS
- TOPOGRAPHIC SURVEYS
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