

ROBOTIC CUTTING

Robotic lateral cutting is a specialized method used to repair pipelines by cutting and removing obstructions from the interior of the pipe. **Here's a general overview of the process:**

PREPARATION: Before the cutting process can begin, the pipeline must be cleaned and cleared of any debris or obstructions. This may involve using a separate cleaning process, such as hydro jetting, to remove any build-up or blockages.

ROBOT INSERTION: Once the pipeline is clean, a specialized robotic cutting system is inserted into the pipeline through an access point or lateral connection. The robot is equipped with a cutting blade, which is used to remove any obstructions or blockages in the pipeline.

CUTTING: As the robot moves through the pipeline, it uses its cutting blade to remove any obstructions in its path. The cutting blade is guided by Mainline's skilled operator, who monitors the progress of the robot using a video monitor and a control unit.

RETRIEVAL OF DEBRIS: As the cutting process is carried out, the debris is removed from the pipeline using a specialized vacuum or suction system. This ensures that the pipeline is cleared of any obstructions and is ready for use.

INSPECTION: After the cutting process is complete, the pipeline is inspected to ensure that the obstruction has been removed and that the pipeline is clear and functioning properly.

Robotic lateral cutting is an effective method for removing obstructions from pipelines, particularly in applications where traditional excavation or cutting methods are not feasible or practical. It is a non-invasive method that minimizes the impact on the surrounding environment and reduces the need for additional clean-up.

Requirement	Existing Service Rehabilitation & Repair
Specialist Service Offering	Robotic Cutting
Miscellaneous Civil Works	
Foul Sewer / Stormwater / Sleeve	✓
Water / Gas	✓
Size Limitations	150mm - 600mm



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