



Pipe Bursting

Trenchless rehabilitation used to replace or upsize existing pipelines

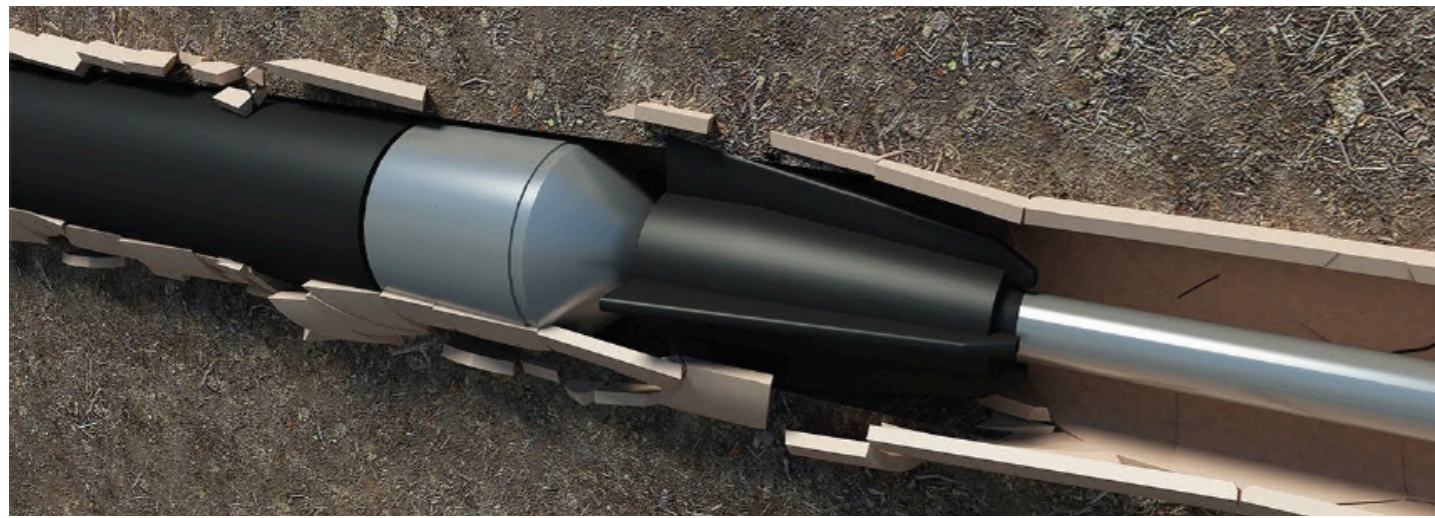
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Pipe Bursting - The Process

Pipe Bursting is an effective trenchless method to replace damaged or undersized sewer, water and gas lines.

A cone-shaped head is either winched through or pneumatically pushed into an existing pipe that is to be replaced. This breaks apart the old underground pipe, while simultaneously pulling a new HDPE / PVC pipe into place that is the same size, or larger than the old pipe.

This method requires minimal excavation and reinstatement at either end of the pipe section in addition to lateral or branch locations.

Service connections are excavated, and the laterals are disconnected prior to starting the bursting process. This precautionary measure is to ensure that laterals are not damaged by the bursting process. A closed-circuit television (CCTV) inspection is carried out once the operation has been completed to confirm that no damages have been caused during this process.

This Pipe Bursting trenchless technology has the following advantages:

Cost-Effective

Traditional pipe replacement by open-cut excavation requires heavy equipment and is labour intensive. With our modern pipe bursting equipment, we can significantly decrease invasion and disarray. The pipe bursting method is generally 40% less evasive than traditional open-cut replacement methods.

Safe & Environmentally Friendly

Excavations are amongst the most dangerous operations in the construction industry. Mould and asbestos pipes are potential health hazards for employees carrying out traditional open-cut excavation, while pipe bursting helps avoid the health risks associated with the traditional process.

Increased Flow Capacity

Pipe Bursting increases the flow capacity of the pipe. As this process provides a smoother interior, the flow capacity is increased. Furthermore, if a larger pipe is installed the hydraulic capacity of the new pipe increases dramatically.

The benefits of NZ Lining Pipe Bursting

Experience

- All NZ Lining employees have years of experience in trenchless pipe renewal and replacement techniques.

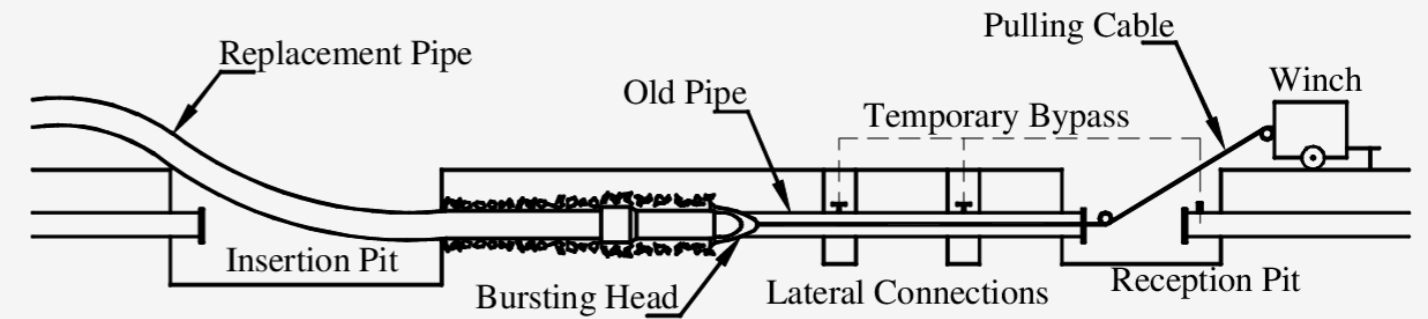
Installation capacity

- Crews throughout New Zealand
- Ability to mobilise quickly

Specialised, safe crews

- Our crews are trained to install new pipes using the Pipe Bursting method
- Every staff member has gone through extensive safety training
- Our installation teams follow a site-specific safety plan and a step-by-step quality installation process to ensure the compliance of the final product

The NZ Lining Pipe Bursting Process



Step 1

Excavate Insertion and Reception pits.

Step 2

Disconnect lateral connections.

Step 3

Install cable/rods inside existing pipe.

Step 4

Connect pulling head and winch, and replace existing pipe.



Advantages

- Environmentally safe
- Smooth pipe finish improves flow characteristics
- Drastically reduces the public inconvenience and disturbance to the environment caused by traditional methods
- Low cost Installation
- Fast process time
- Less future pipe maintenance
- Well-trained, experienced team of installers
- Minimal amount of excavation and disarray

Diameter Range	100mm—300mm
Host Pipe Material	All Materials
Offset Joints	Yes
Test Specifications	ASTM D2239

Bends	Yes
Host Pipe Shape	Circular
Design Standards	ASTM F2620, F1390, F1055