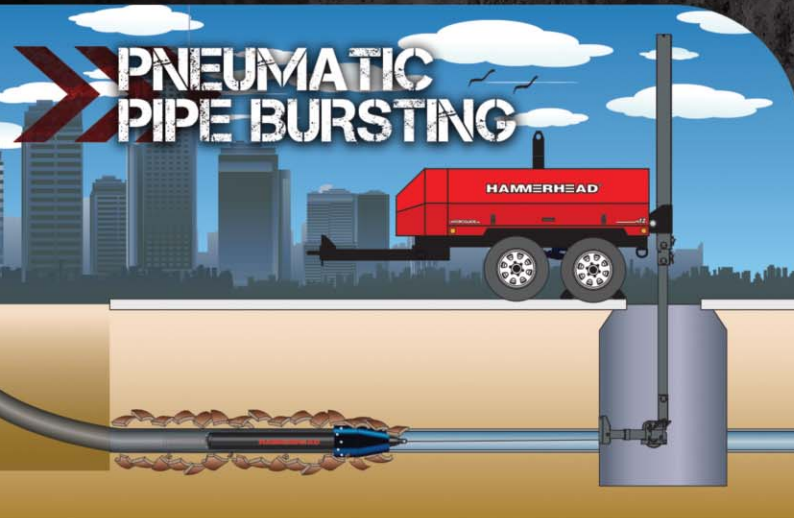




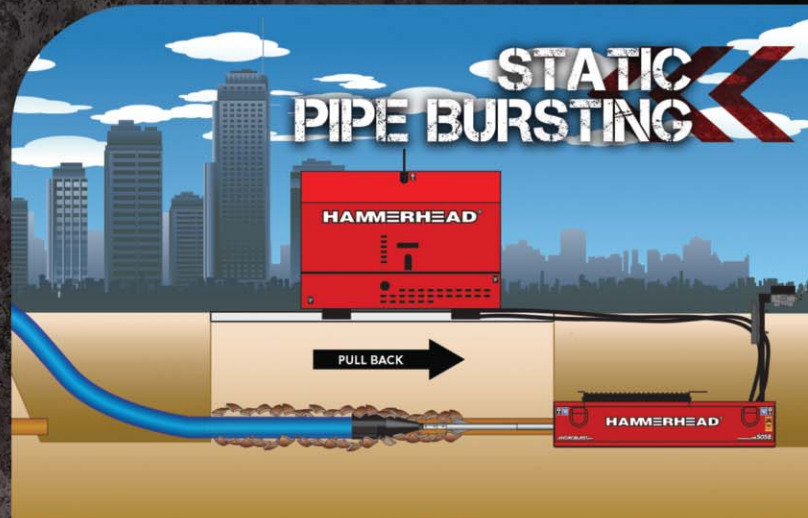
SOLUTIONS FOR TRENCHLESS REPLACEMENT OF UNDERGROUND INFRASTRUCTURE
PIPE BURSTING METHODS



**PNEUMATIC
 PIPE BURSTING**

OPTIMIZED FOR SEWER APPLICATIONS

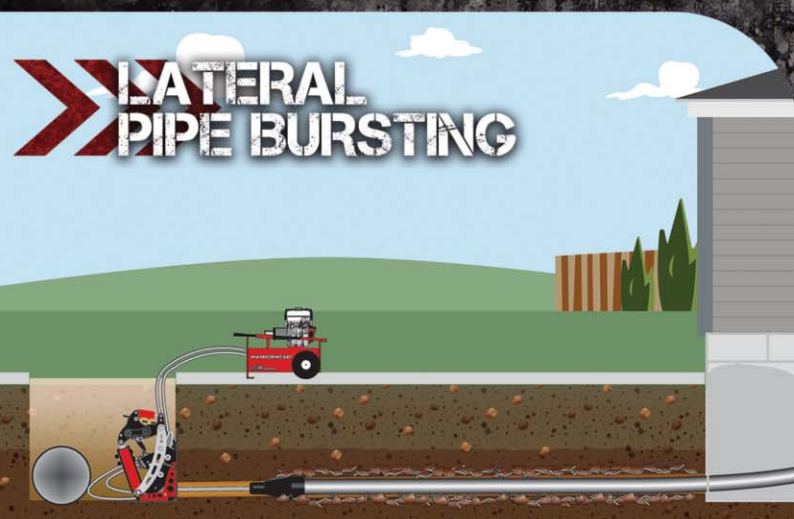
A pneumatic hammer is attached to an expander that fractures the pipe and displaces the broken shards while simultaneously pulling in a new pipe. A constant-tension cable winch set up in the adjacent pit or manhole keeps the hammer and expander centered and in-line with the host pipe. Manhole exiting can reduce overall excavation. Pipe replacement range of 6 to 36-inch fracturable pipe.



**STATIC
 PIPE BURSTING**

PREFERRED IN WATER AND GAS APPLICATIONS

These systems can install pipe reducing risk of contamination to new installed pipe. Steel rods are fed down the host pipe and connected to specially designed tooling and new pipe. Static pulling forces as high as 175 tons break or split the host pipe, displacing it into the surrounding soil while simultaneously pulling in new pipe. Pipe replacement range of 4 to 24-inch non-fracturable pipe.



**LATERAL
 PIPE BURSTING**

COMPACT DESIGN FOR LATERAL REPLACEMENT

Lateral replacement systems use static force to pull cable through old sewer laterals. The down hole unit is compact, requiring only a small access pit. The cable is attached to a bursting/puller head that breaks up the old pipe while also pulling in new pipe. Pipe replacement range of 2 to 6-inch fracturable pipe.



**GAS LINE
 SLITTING**

ADVANCED SAME PATH™ TECHNOLOGY FOR PLASTIC GAS LINES

Patented specialized tooling is pulled through the existing plastic gas pipe using a HydroGuide® cable winch, splitting the line while simultaneously pulling in a new pipe in the same path of the original. It is a fast and economical means of replacing or decommissioning plastic gas pipes. Pipe replacement range of 1/2 to 4-inch plastic pipe.

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