



CONCAST. CONSTRUCT. CONNECT.

MICRO-TUNNELING PIPE

MICRO-TUNNEL PIPE: THE TRENCHLESS SOLUTION

Micro-tunneling is a trenchless construction technique that has been increasing in use in recent years.

Why? Because it is safe, accurate and easy to control.

Combine that with the remote technology it utilizes, and you have a strong solution for infrastructure needs.



DYNAMIC SOLUTIONS

Construction infrastructure needs are ever-changing. With that is the need to develop new and efficient technologies. As leaders in precast innovation, CONCAST is at the forefront of the industry, bringing this exciting technology within reach.

HOW IT WORKS

Micro-tunneling is used for constructing tunnels, from 600 mm to 3000 mm in diameter, using a micro-tunnel boring machine. This machine is remotely operated safely from ground level, eliminating the need for an operator inside the tunnel with the boring machine.

First, a shaft is constructed, to create the opening of the tunnel. The micro-tunneling boring machine is launched from the shaft and jacked into the ground. Pipes are jacked behind the micro-tunneling boring machine until it reaches the reception shaft.

ACCURACY AT ITS BEST

Since the boring and jacking machinery are operated remotely from a ground control center on the surface level, the entire process is very accurate. The boring machinery has the ability to tunnel radiuses, rather than just straight lines - giving way to more intricate designs for more complex infrastructure needs.

While monitoring the machinery, the operator is constantly aware of the boring machine's location, allowing the operator to correct alignment, in order to maintain the line and grade.

APPLICATIONS

Micro-tunneling can be used as a caisson for utilities and second-pass watermain, or as a water-tight tunnel for sewage or low pressure water transmission.



PERFECT MICRO-TUNNELING PIPE

Our PERFECT PIPE can also be micro-tunneled to fit your needs. PERFECT MIRCOTUNNELING PIPE allows the designer to construct the sewer system with, an HDPE liner. The combination of the HDPE liner, and the thermoplastic joint connector, means the pipe can be installed without field welding, reducing construction time, and without anyone in the tunnel.



MICRO-TUNNELING SIZES

Nominal Diameter (mm)
600
900
1200
1350
1500
1800
2100
2400
3000

WHY CHOOSE MICRO-TUNNELING?

- Minimal surface disruption
- Perfect for installation in sensitive environments
- Can be installed deep underground





Contact us today to learn more about micro-tunneling pipe.

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