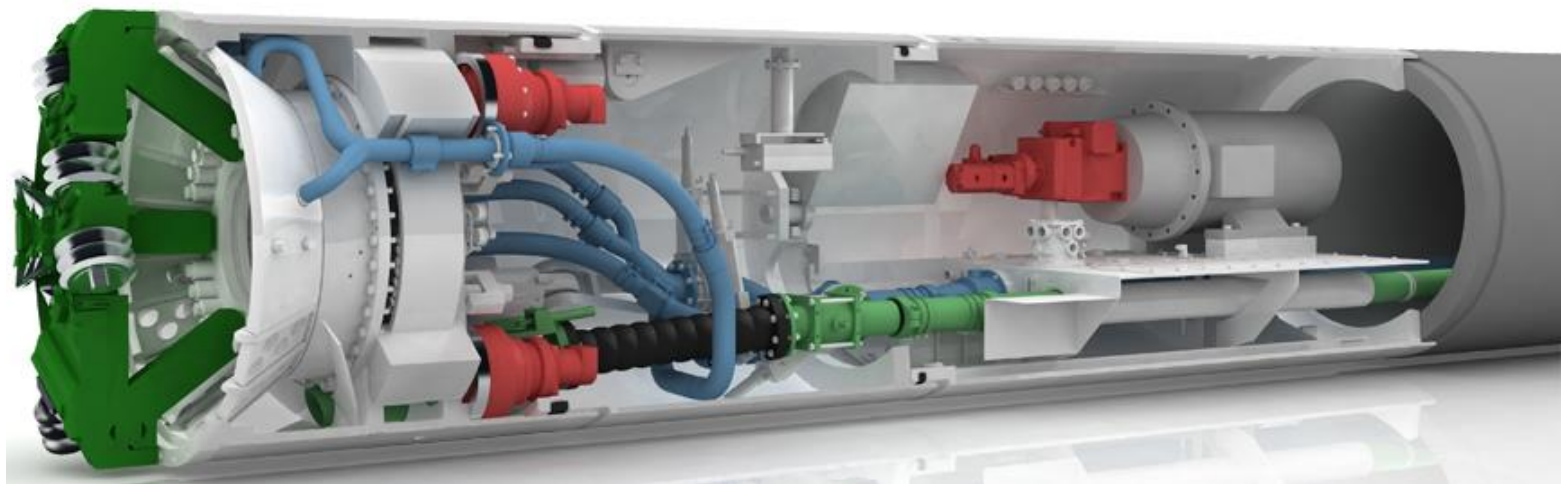


# Mechanized Trenchless Installations for Small Diameters (MTBM – Direct Pipe – PipeExpress)

Dr. Gerhard Lang, Business Development Manager  
Herrenknecht

**WEDNESDAY, February 11<sup>th</sup> at NOON in BB W280**  
- Lunch Provided -



Micro tunnel boring machines (MTBMs) have allowed for faster, more reliable and longer excavations of small diameter tunnels in many ground types ranging from silts or clays to non-cohesive materials like sands. Even hard rock conditions are manageable for MTBM excavation. In contrast to full size TBMs, microtunneling involves such small diameter MTBMs (approximately 0.6 to 1.5 meters), that they must be controlled remotely since there is no capacity for a machine operator to fit inside the machine. These smaller diameter MTBMs are ideal for construction of underground utilities and water transport systems. This seminar will speak to MTBM methods, specifically

Herrenknecht's Pipe Express, which is a semi-trenchless construction method for installing pipelines that received an Innovation Award in 2013.



Gerhard's background is in civil and mechanical engineering. After working for Herrenknecht as project manager on some traffic tunneling jobs in Europe he finished his PhD in civil engineering and a MBA in international marketing before he went to work for Amiantit. Since 2008 he is back with HK as Business Development Manager for the Utility Tunneling division with focus on the North American market.

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