

## Perforator



# MICROTUNNELING

## AugerPro System - Pipe Jacking

Tunnel length: Diameter: Up to 300m OD200 - OD1600 soft ground (sand, silts, clay),  
Geology: without any boulders

Features:

- Low groundwater level
- Excavated soil is transported by auger train to the start shaft
- Push pipes directly after drilling

## Slurry Systems - Pipe Jacking

Tunnel length: 1.000m and more  
Diameter: OD350 - OD4000  
Geology: All conditions

- Features:
- Difficult soil with high levels of ground water
  - For very long distances and large diameters
  - Excavated spoil is mixed with water, transportation to the surface
  - Water and spoil get separated, water maintains in the slurry circle
  - Four different modes, usability for different geologies
  - Additives or betonite are not required

mts Hybrid: Slurry systems - suitable for pipe jacking and segmental lining projects If there is no possibility for building a rescue shaft > switch to segmental mode > finish tunnelling

## **EPB Systems - Pipe Jacking**

Tunnel length: 1.000m and more OD1200 - OD4000 Soft ground  
Diameter: Geology:

- Features:
- Fine soils with low water permeability
  - For very long distances
  - Excavated soil gathers in the excavation chamber
  - Soil and advancing force build the support pressure
  - Excavated soil transported by screw conveyor out of the excavation chamber
  - By conveyor belts or lorries to the launching shaft

mts Hybrid: EPB systems - suitable for pipe jacking and segmental lining projects If there is no possibility for building a rescue shaft > switch to segmental mode > finish tunnelling

## **Hard Rock Systems - Pipe Jacking**

Tunnel length: Diameter: 1.000 m and more DN 1200 - DN 4000 fractured and  
Geology: unfractured Rock

Features:

- With a gripper station in stable ground conditions
- Grip against the tunnel wall to move forward
- In fractured rock > unstable tunnel walls supported by pipes or segments > Segmental Lining

## **System 2 - Smart Combination of HDD Drilling and Microtunneling**

Push Force: Diameter: Geology: 400t up to 1.000t OD500 - OD1500 All conditions

Features:

- Usability for pre-bent and straight pipes
- Variable feeding length of 6 m up to 24 m
- Time-saving and cost-saving shaft installation
- Start angle: 0-25° and more, min. curve radius: 150m
- Strong cooperation

Our microtunneling systems are easy to handle with our mts power pack container. Our laser guidance systems ensure high accuracies. You will obtain an overview of the main components at the following link: [Components](#)

Categories: Micro Tunneling, MTS Perforator, Trenchless Technology.