

**Microtunnelling with a closed front boring system for pipe jacking in inaccessible and accessible diameters (400 mm to 3,200 mm internal diameter) is highly suitable for underground crossings of rivers, roads, nature areas and other infrastructure.**

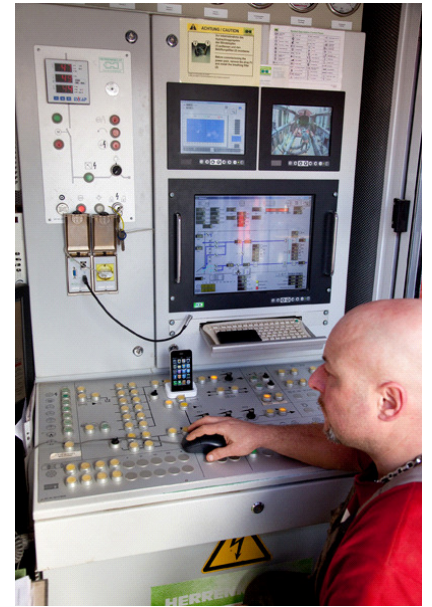
### Execution

Jacking pipes made from reinforced concrete, steel, ceramic or glass fibre reinforced plastic (GFRP) are pressed through the ground one after the other from a departure shaft. This is done using hydraulic pipe jacks with simultaneous excavation of the ground by the bore shield at the bore front. The system is steerable and can be used below groundwater level.

### Applications

This method can be used both above and below groundwater level, and furthermore under a wide variety of geological conditions: sand, clay, silt, peat, as well as sandstone, marl or rock with a suitable cutting wheel.

This method is used in the construction of wastewater collectors, sewers, water lines, tunnels for piping or cables, ecotunnels, bicycle and pedestrian tunnels, drainages, tubular roofs, landings for offshore pipelines, etc.



### Advantages

Pipe jacking is a fast, reliable, safe, efficient, extremely precise, watertight, multipurpose and flexible horizontal tunnelling method that can be used under a wide variety of geological conditions.

