Microtunnelling is a long-established drilling method which utilises a closed front or drilling shield. This is why it is also called shield drilling. The drilling shield is waterproof, which makes this method highly suitable for drilling below the groundwater table.
Microtunnelling is implemented by means of a tunnel boring machine, which is propelled from a jacking pit into a receiving pit by means of hydraulic cylinders. The boring machine is equipped with a waterproof drilling shield so as to render the works of lowering the groundwater level across the entire length of the drilling track unnecessary, as only the workspace area around the jacking and receiving pits needs to be dry. A.Hak Drillcon has the experience, materials and equipment to perform microtunneling according to the requirements of the client, including the construction of the entire jacking and receiving pit and pipe driving operations.
VARIOUS DRILLING SHIELDS
Microtunnelling can be performed with various drilling shields, whose functioning is based on the same principle. However, they show a number of significant differences. Whereas, in the Netherlands, we can often use a soft-ground or mixed-ground shield, abroad, we often need our (hard) rock shield in order to drill through rock formations.

ADVANTAGES
Microtunnelling renders route tracking unnecessary, as the drill pipes are mounted and driven into the soil one after the other. This technique is suitable for all common types of soil layer, and there is no need to lower the groundwater level.

VERSATILE QUALITY
A.Hak Drillcon offers full service: from the design phase to the implementation of the final drilling. We work closely with our engineering and implementation departments so as to allow for direct and clear communication. Supporting equipment such as jeeps, reel trucks, lorries and pipe roller systems, is managed internally. At our premises in Helmond, we have a workshop, warehouse and yard with spare parts management.