

RAISE BORING REAMING HEAD

# BOOSTING REAMING EFFICIENCY



## Raise Boring Reaming Head and Cutting Tools

- › Wide diameter range from 1 to 8 meters
- › Increased bearing capacity and cutter lifetime
- › Load monitoring of the reaming head's stem to prevent overloading
- › Cutter wear and tear detection for optimized maintenance intervals
- › Changeable bearings, enabling cutter refurbishment
- › Customized solutions: special diameters, fractured ground version, horizontal raise boring

**PIONEERING  
UNDERGROUND  
TECHNOLOGIES**



# Raise Boring Reaming Head

## Technical specifications

**With its proven expertise in cutterhead manufacturing**, Herrenknecht has developed a new generation of reaming heads and cutting tools to complete the raise boring system. Due to their modular design, the reaming heads are available with a wide range of diameters from 1 to 8 meters. The bearing capacity of the cutting tools has been increased and, thus, the cutter lifetime. The bearings are exchangeable for cutter refurbishment, which increases the overall operating efficiency. Designed to meet challenging project requirements, the reaming heads are optionally equipped with a remote monitoring system. The load on the reaming head's stem can be monitored as well as the wear on the cutting tools.



Raise Boring Cutter with tungsten carbide inserts.



A new generation of Herrenknecht reaming heads with diameters ranging from 1 to 8 meters.

### MODULAR DESIGN

- › Diameter range from 1 m–8 m
- › Diameter adaptable to specific project requirements
- › Transport underground simplified
- › Special diameters upon request

### STRONGER BEARINGS

- › Bearing capacity increased
- › Cutter lifetime extended
- › Changeable bearing allow cutter refurbishment

### CUTTER MONITORING

- › Optional for Herrenknecht reaming head cutting tools
- › Real-time monitoring of rotational speed and temperature monitoring of raise boring cutters
- › Localizing worn or damaged cutters
- › Enabling optimized maintenance intervals and machine operation

### STEM MONITORING

- › Optional for Herrenknecht reaming heads
- › Real-time load monitoring of the reaming head's stem
- › Enabling optimized machine operation like the prevention of overload in challenging ground