

Slurry Tunnel Boring Machine

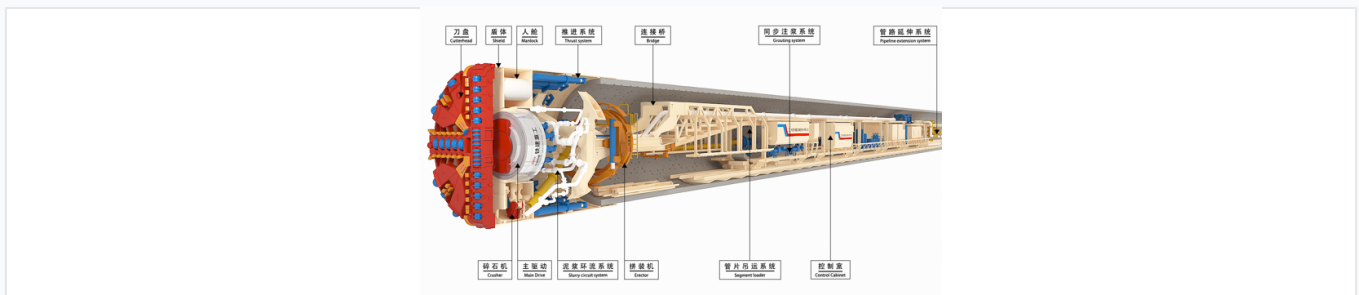
Slurry TBMs ensure tunneling in heterogeneous ground with high water permeability and groundwater pressure. They are used for constructing metro systems, highway tunnels, and water diversion tunnels.



ADDITIONAL IMAGES



Product Overview



Basic structural layout and slurry circulation principle

Advanced Slurry Tunnel Boring Machine

Engineered for high-performance excavation in heterogeneous ground conditions, this slurry TBM series provides reliable operation in areas with high water permeability and pressure. The system utilizes pressurized slurry as a support medium to balance surrounding soil and water loads, ensuring safety and stability. With versatile configurations ranging from small to mega diameters, these machines serve critical infrastructure projects including metro systems, highway tunnels, and sub-sea crossings.

Technical Specifications

Pressure Control Systems

- Direct control: Regulating rotation speed of slurry feeding and discharge pumps
- Indirect control: Precise support pressure regulation via air-filled chamber behind bulkhead

Advanced Capabilities

Cutter change in free air • Real-time cutter wear monitoring • Automatic deviation correction • High-pressure bearing main drive seals

Available Diameter Range

Small (<5m), Normal (5m-8m), Large (8m-11m), Mega (>11m)

Application References

Notable Project Examples

Project Location/Type	Nominal Diameter (mm)	Quantity
Gwangyang-Yeosu Cable Tunnel, South Korea	3570	1
Natural Gas Pipeline Crossing, Yueyang, China	3770	1
Metro/Water Allocation Projects, China	6250	6
Bangalore Metro, India	6650	4