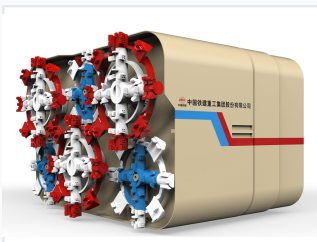


Rectangular Tunneling Machine

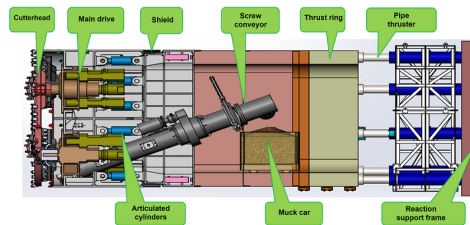
Rectangular pipe jacking machines are increasingly used in municipal applications because of their adaptability to soft soils and shallow overburdens. These machines also provide higher space utilization compared to conventional circular pipe jacking machines.



ADDITIONAL IMAGES



Product Overview

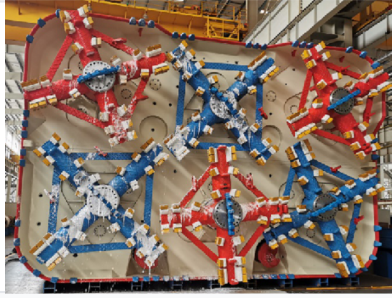


Working principle diagram showcasing the cutterhead, muck conveyor, and jacking system.

High-Efficiency Rectangular Tunneling

This rectangular pipe jacking machine is engineered for municipal infrastructure, offering superior space utilization compared to conventional circular designs. It is highly adaptable to soft soil conditions and shallow overburdens, ensuring minimal surface disruption during urban construction. Advanced features, including articulated steering and high-coverage cutterheads, provide precise, reliable excavation in diverse geological environments.

Technical Features



Detailed view of the grid-pattern cutterhead designed for high-coverage excavation.

Performance Advantages

- 90% cross-section coverage rate via multi-cutterhead arrangement
- Hard alloy ripper bits and cutting knives for weathered granite
- Articulated cylinders for precise directional control
- Block-design shield for high-efficiency handling
- Equal-thrust twin-stage cylinders to save launch space
- Optional bentonite friction reduction and intermediate jacking

Geological Compatibility

Soft soil, Artificial fill, Clay, Silt, Weathered granite, Gravel cohesive soil

Project References



The machine performing precise excavation within a finished tunnel segment.

Project Track Record

Project Name	Dimensions (mm)	Geology	Units Used
Shenzhen Underground Passage	10200*6600	Gravel cohesive soil, weathered granite	1
Nantong Metro Line 1	7400*4900	Artificial fill, clay, silt	1
Guangzhou Metro Line 10	7700*5100	Gravel cohesive soil, weathered granite	2
Hangzhou Metro Line 3	3060	Mucky clay, mucky silty clay	1