

Subsurface Excavation Bogie for Tunnel Construction

This subsurface excavation bogie is designed for subway tunnel engineering, especially in soft soil. It performs earthwork excavation, waste discharge, grooving, and conduit digging.



Product Overview

Versatile Underground Excavation Powerhouse

The TWZ180 subsurface excavation bogie is a specialized solution engineered for subway and tunnel construction in soft soil, cobblestone, and weathered rock environments. This hydraulically-driven crawler machine offers multi-functional capabilities including earthwork excavation, waste discharge, and conduit digging. By replacing manual labor with a high-efficiency automated system, it provides superior manoeuvrability and adaptability regardless of the tunnel section shape.

Key Performance Metrics

Operational Power & Capacity

90 kW

Total Installed Power

120 m³/h

Conveying Capacity

18000 kg

Machine Weight

Technical Specifications

Working Range (W x H)

Metric	Value
Maximum	5m x 6m
Minimum	3m x 2.9m

Dimensions (L x W x H)

7.5m x 2m x 2.4m

Applicable Gallery Materials

Soft soil, Cobblestone, Weathered rock

Operational Details

Drilling Specifications

- Drillhole diameter: 127 - 142mm
- Drilling speed: 0.9^1.5 m/min
- One-time drilling depth: 2.1 m

Power & Hydraulics

- Supply voltage: 380V
- System pressure: 28 MPa
- Rated gas pressure: 0.5 MPa