

# Direct Pipe Laying Machine for Trenchless Construction

Direct pipe laying machines utilize a trenchless construction method for installing pipelines. This method allows for simultaneous excavation and pipeline laying.



## ADDITIONAL IMAGES



## Overview

### Advanced Trenchless Pipeline Installation

This direct pipe laying machine represents a new-type trenchless construction method where excavation and pipeline laying are performed simultaneously. It is specifically designed for high-efficiency projects involving small diameter water diversion, drainage, and oil pipelines. By combining a tunnel boring machine with a powerful pipe thruster, it eliminates the need for pipe installation during the drive and removes the requirement for reception shafts.

## Core Features



The specialized cutterhead designed for simultaneous boring and pipe installation.

### Key Benefits

- Simultaneous excavation and pipeline laying
- Continuous tunneling up to 1000m in a single drive
- Slurry balance mode for minimal ground settlement
- High-precision guidance system for accurate breakthrough
- Adaptable cutterheads for complicated geological conditions
- Reduced construction risk with machine retrieval capabilities

## Performance Metrics

### Performance Highlights

**100 m**

Daily Advance Rate

**5 m/min**

Max Advance Rate

**1000 m**

Max One-time Tunneling

## Technical Specifications

### Machine Specifications by Model

Parameter	Variant A	Variant B
Diameter	1,300 mm	1,505 mm
Weight	200 t	270 t
Maximum Thrust	5,000 kN	8,000 kN
Installed Power	770 kW	820 kW
Shield + Back-up Length	14 m	14 m

## Operational Parameters



Operational setup showing the pipe handling and thrusting mechanism at a construction site.

**Construction Angle Range**

-15° to 15°

**Field Performance**

Successfully tunneled 200m within 2 hours without failure

## Applications

**Typical Applications**

Oil Pipelines, Water Diversion Tunnels, Water Drainage Tunnels, Small Diameter Tunneling