

# NT-02D

## Pipe Jacking Theodolite

*When Theodolite Meets  
Pipe Jacking*



### Features

- 1000m Visible pointer and pinpoint accuracy ( $\leq 4\text{cm}/1000\text{m}$ )
- 1000m Extreme long-range laser
- Up to 2" accuracy
- Clear & large LCD display unit
- Designed to complete the pipe jacking applications



## Applications



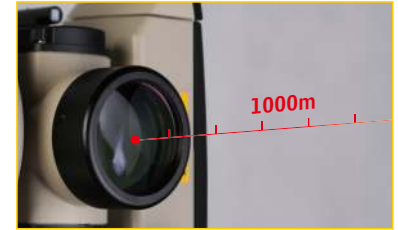
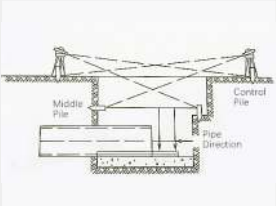
### A Simple but Practical Measuring Tool

With a laser plummet for simple and quick setup, single axis compensator, beeping for 90 degrees turns, NT-02D is a practical measuring tool for your daily work.

### When Theodolite Meets Pipe Jacking

Pipe jacking, generally referred to in the smaller diameters as micro-tunnel, is a technique for installing underground pipelines and culverts.

When pushing the specially designed pipes through the ground behind a shield, NT-02D offers an accurate laser pointer with extreme long range, which will largely decrease the deviation of center axis and elevation.



### 1000m Extreme Long-range Laser

Pinpoint laser pointer provide long-range and reliable aiming in the pipe jacking constructions, for the micro-tunnels, pipelines and culverts, etc.



### External Power Supply for Full-Days' Work

NT-02D supports the external power supply for any full-days' work, which eliminates the need for recharging or carrying extra batteries.



## Easy Operation



Slope



Unit Setting



Laser Pointer



Laser Plummet



Compensator



Auto Off

## Specification

### Angle Measurement

- Measuring Method: Absolute Encoding
- Diameter of Encoder Disk: 79mm
- Minimum Reading: 1"
- Accuracy: 2"
- Detection Method: Horizontal -Dual, Vertical-Dual

### Telescope

- Image: Erect
- Magnification: 26.5x
- Effective Aperture: 40mm
- Resolving Power: 3"
- Field of View: 1°30'
- Minimum Focus Range: 1.5m
- Multiple Constant: 100
- Additive Constant: 0
- Tube Length: 155mm

### Laser

- Wavelength: 635±20nm
- Laser Class: Class II
- Diameter: <4cm/1000m
- Tolerance: <10"

### Compensator

- Type: Single Axis
- Working Range: ±3'
- Accuracy: ±3"

### Bubble

- Plate Bubble: 30"/2mm
- Circular Bubble: 8"/2mm

### Laser Plummet

- Accuracy: ±1.5mm, at 1.5m
- Diameter: ±2.5mm, at 1.5m
- Wavelength: 635±20nm
- Laser Class: Class II

### Display Unit

- Type: 2.7 Inch LCD screen

### Power Supply

- Battery: 7.4V, Lithium battery, 8 hrs

### Working Environment

- Range: -20°C~ +50°C

### Dimension

- Size: 165\*160\*340mm
- Weight: 4.7kg