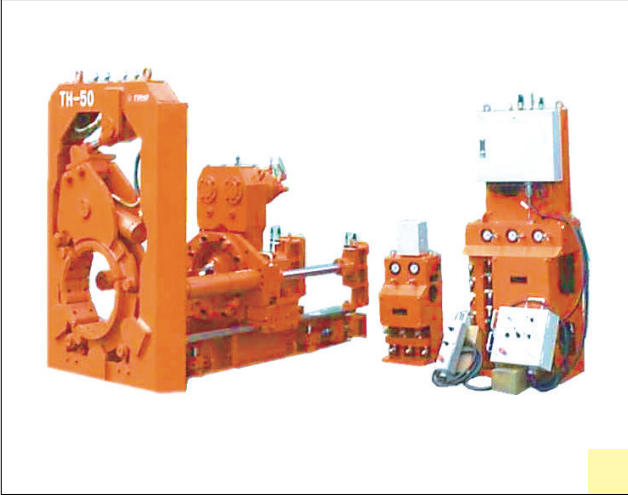


Micro-tunnelling Machine: TH SERIES

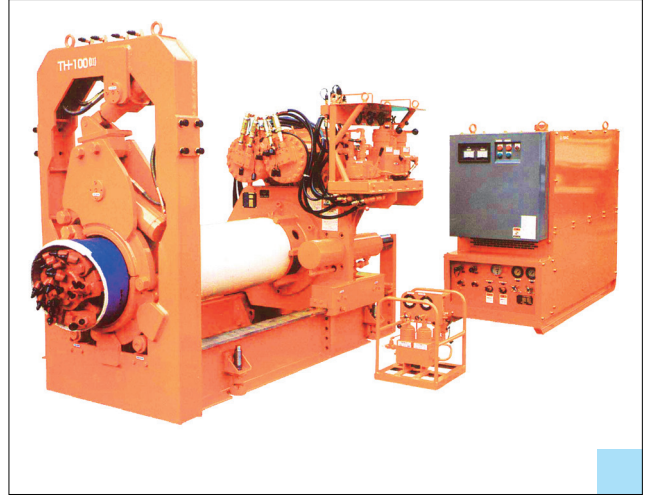
TH-50



TH-50

■ Able to propel L=1000mm steel pipe inside ϕ 2000mm liner plate

TH-100



TH-100 / TH-200

■ Able to propel L=1000mm steel pipe inside ϕ 2500mm liner plate

■ Power wrench

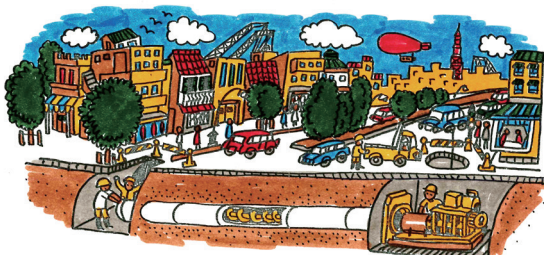
MODEL	TH-50	TH-100	TH-200
Thrust force (kN)	492.6 {50.3tonf}	1000.0 {102.4tonf}	2156 {220tonf}
Pull out force (kN)	251.2 {25.6tonf}	184.0 {18.8tonf}	392 {40tonf}
Steering control system	Twin cylinder oil hydraulic power wrench	Twin cylinder oil hydraulic power wrench	Triple cylinder oil hydraulic power wrench
Applicable pipe (mm)	Steel: 216.3~406.4	Steel: 216.3~508.0	Steel: 812.8 (800A) Hume pipe: 600
Power	Oil hydraulic unit: 30kW/4P	Oil hydraulic unit: 30kW/4P	Machine: 15kW/4P Oil-hydraulic unit: 15kW/4P
Dimensions (L x W x H) (mm)	Machine: 1863 x 1224 x 1650 Oil hyd. unit: 1800 x 700 x 1350	Machine: 2415 x 1385 x 2030 Oil hyd. unit: 1800 x 700 x 1350	Machine: 5740 x 2040 x 1700 Oil-hyd. unit: 1500 x 880 x 955
Mass (kg)	Machine: 2000 Oil hydraulic unit: 1250	Machine: 2800 Oil hydraulic unit: 1250	Machine: 8050 Oil-hydraulic unit: 900

Power wrench (type: 500) is optional equipment

Outline of O.K.MOLE METHOD

Established in 1981 as Micro Pipe Tunneling Method.
Still now "Key Machine" for underground tunneling as more than 1,500km result at JAPAN construction field.

- 1 Underpinning
(Under pass for Roads, Buildings, Railways, River ...etc)
- 2 Drainage Pipes
- 3 Pipe-Roof Method
- 4 ST Water Collect and Drain Method



Tools

- Easy for changing drilling bit
- Wide range adaptation from Silt Soil to Hard Rock
- Good performance at complicated land slide ground



Leading Pipe



Head Shoe



Auger



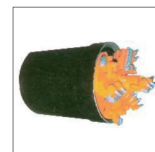
Roller Bit
(chip inserted)



DTH Hammer Bit
(for hard rock)



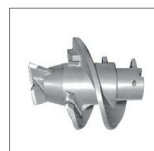
Roller Bit, fixed
(for soft rock)



En-larging Bit
(for soft rock)



Auger Bit
(for common stratum)



Auger Bit
(for gravel)



Auger Bit
(for tough stratum)

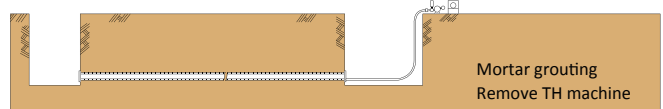
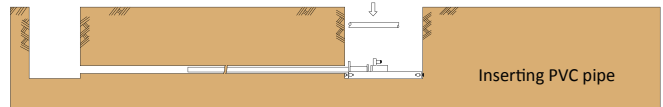
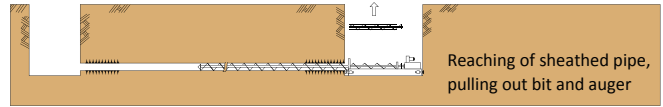
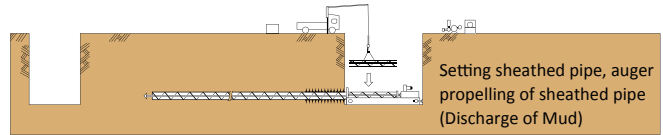
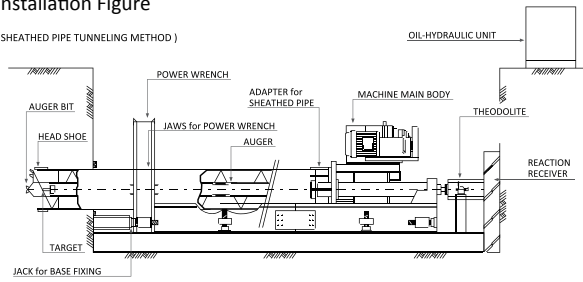


Auger Bit
(for aquifer)

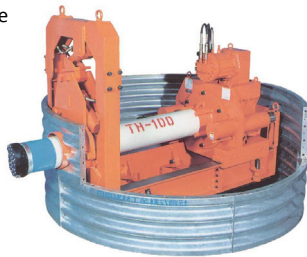
Sheathed Pipe Tunneling Method

Installation Figure

(SHEATHED PIPE TUNNELING METHOD)

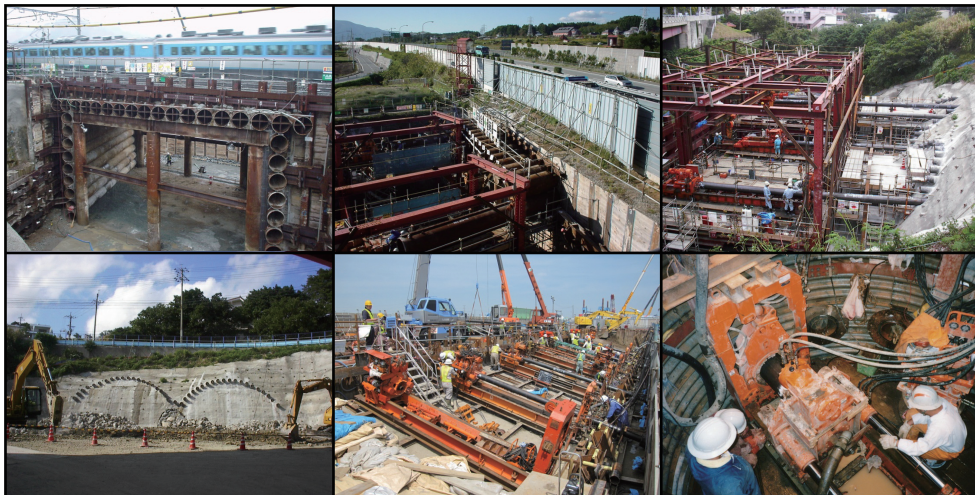
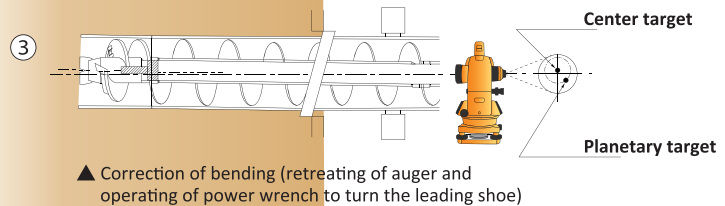
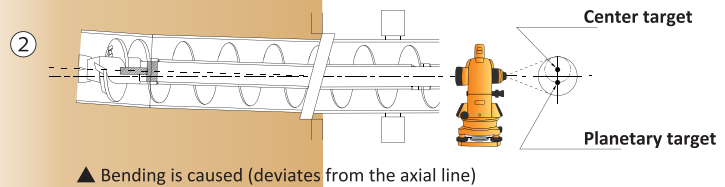
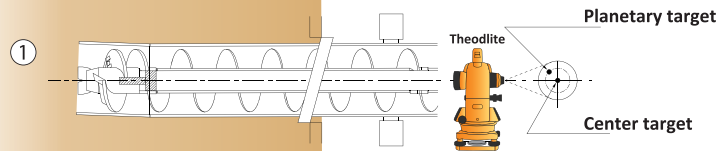
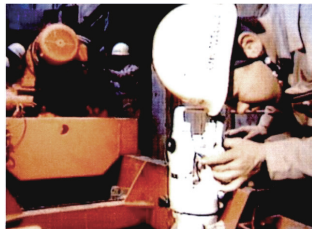


φ2500mm Liner plate



Measuring Mechanism

1. Measured by TV monitor all the time (2-point type luminous diode)
2. Controlled angle by Power Wrench (Using leading pipe shoe)



USED FOR

Micro-tunnelling

Pipe roofing

Water drainage

Sewerage

