

NO DIG *Equipment*

The Horizontal Boring Specialists



PILOT TUBE MICROTUNNELERS

B750 – B250 – B110

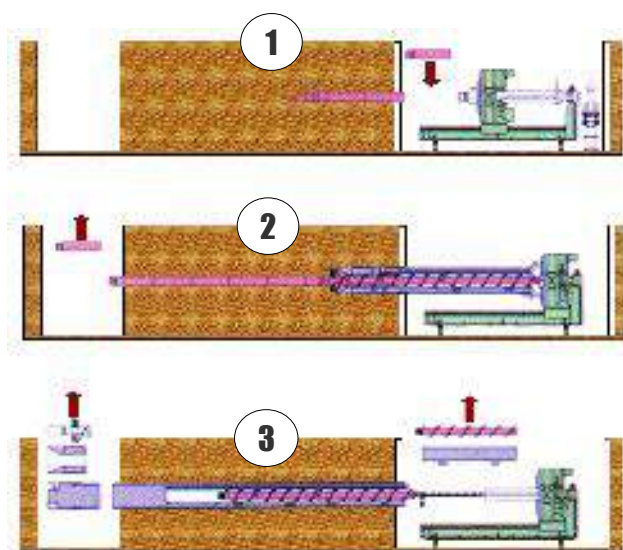
These unique horizontal boring machines gives contractors the versatility of a small light weight drill rig combined with real grunt.

These machines are capable of installing pipe from 150 mm up to 450 mm in diameter to grade and line. Bore length in excess of 80 m and grades of 1 in 300 have been achieved with these units at a depth of 10 m below ground level.

The microtunneler can also be configured as a directional drill rig, and even be fitted with an air hammer to drill through solid rock.

The engineered simplicity and versatility make these rigs an ideal tool for contractors associated with trenchless installation of on grade services such as gravity sewers and drainage systems.

HOW DOES IT WORK ?



Once a shaft has been created at both the start and end of the planned installation line, the Micro Tunneller is lowered into position. A steerable pilot tube is then driven underground towards the target shaft. (1)

When the pilot bore is completed, a cutter head, screw conveyor and the pipe to be installed are then attached and jacked behind the “pilot” hole. (2)

The cutter head bores through the soil as new segments of pipe are attached and driven forward.

Once the pipe has reached the target shaft, the auger and casing inside the pipe are extracted, completing the pipeline. (3)

Extremely Durable

Manufactured from Steel Tube and rolled steel sections, the framework is fully welded, making it a relatively light weight, sturdy and durable structure.

Easy To Use

With only two levers to control, Rotation and Thrust, its operation is amazingly simple and most importantly `user friendly`.

Plenty Of Power For Its Little Size

Designed with the emphasis on keeping size to a minimum, the machines are still powerful enough to handle the most difficult soil conditions.

Keep Cost Down and Increase Productivity

To operate the machine safely and adequately requires a minimum of two persons, opposing the need for larger crew. Hence keeping costs down and productivity up.

Heavy Duty Design

Heavy duty Cutting Heads and Bits are fitted with tungsten carbide teeth. Our tools are capable of standing up to the toughest and most abrasive soil conditions.

Never Miss The Target

The use of a Electronic Theodolite provides for an extremely high 10 sec. accuracy. Grades of 1 in 300 can generally be achieved with pin point accuracy in line and level.

Easy to Set-Up

The main frame is equipped with levelling feet at each corner, allowing for quick, safe and positive height adjustment of the machine on site.

Training

We can provide comprehensive on-site training for all new owner/operators, ensuring correct procedures are shown to and practised by designated personnel.



B750 at 7 m deep installing 225mm PVC sewer



B250 installing 300 mm pipe



B110 pilot drilling for sewer



B750



Pilot Tube MICROTUNNELER B750

Thrust (max):	50 Tonnes (110,000 lb)
Torque (max):	3,500 Nm (2600 lbft)
Speed Range:	0 - 100 rpm
Base Rig Dimensions:	2050 mm L x 1250 mm W x 1450 mm H
Base Rig Weight:	400 Kg
Pipe Size Installed:	Up To 450 mm Ø
Boring Distance:	60 m dependant on ground conditions
Minimum Operating Pit Size:	2.4 m Ø or 2.4 x 1.5 m Rectangular
Guidance System:	Electronic Theodolite Come with 90° eye piece, 10 sec. accuracy
Hydraulic Power Pack:	Remote, Detroit VM Turbo Diesel engine 62 kW 200 Lpm (54 GPM) at 2000 PSI Approximate Dry Weight: 1200 Kg
Tooling:	+ 60 m of 70 mm Ø Pilot Tube System + 60 m of 90 mm Ø Auger System + 2 Cutting Heads suite 150 mm + 250 mm OD Pipe + 60 m of 150 mm Ø Auger System + 2 Cutting Heads suite 300 mm + 400 mm OD Pipe
Notes:	Machine is supplied complete for installation of 60 m bores



B250

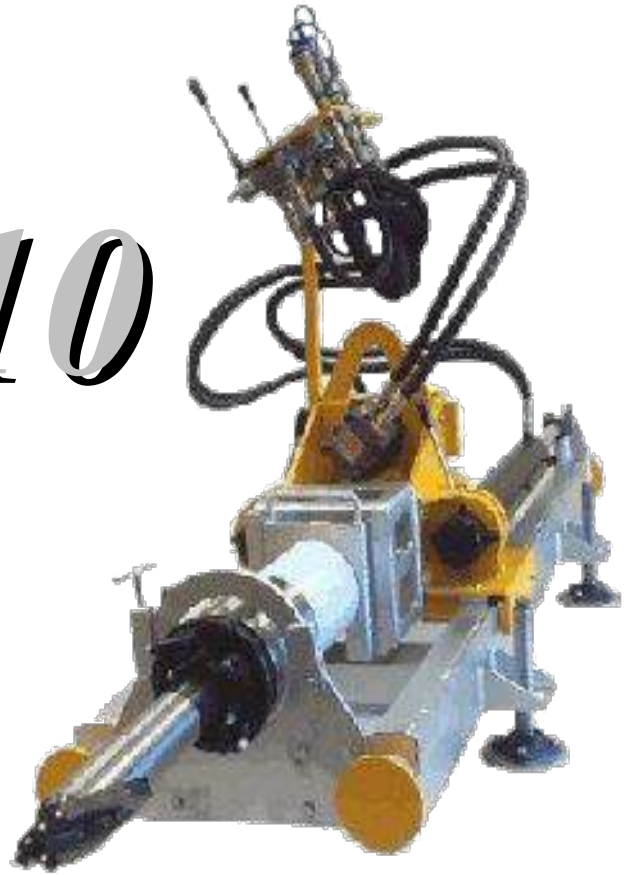


Pilot Tube MICROTUNNELER B250

Thrust (max):	25 Tonnes (55,000 lb)
Torque (max):	2,250 Nm (1660 lbft)
Speed Range:	0 - 150 rpm
Base Rig Dimensions:	1900 mm L x 750 mm W x 1200 mm H
Base Rig Weight:	400 Kg
Pipe Size Installed:	Up To 300 mm Ø
Boring Distance:	60 m dependant on ground conditions
Minimum Operating Pit Size:	2.4 m Ø or 2.4 x 1.5 m Rectangular
Guidance System:	Electronic Theodolite Come with 90° eye piece, 10 sec. accuracy
Hydraulic Power Pack:	Remote, Detroit VM Turbo Diesel engine 62 kW 200 Lpm (54 GPM) at 2000 PSI Approximate Dry Weight: 1200 Kg
Tooling:	+ 60 m of 70 mm Ø Pilot Tube System + 60 m of 90 mm Ø Auger System + 2 Cutting Heads suite 150 mm + 250 mm OD Pipe
Notes:	Machine is supplied complete for installation of 60 m bores



B110



BED BORER B110

Thrust (max):	11 Tonnes (24,250 lb)
Torque (max):	1400 Nm (1033 lbft)
Speed Range:	0 - 150 rpm
Base Rig Dimensions:	2100 mm L x 600 mm W x 1200 mm H
Base Rig Weight:	200 Kg
Max Pipe Size Installed:	Up to 250 mm Ø
Boring Distance:	50 m dependant on ground conditions
Minimum Operating Pit Size:	2.4 m Ø or 2.4 m x 1.5 m Rectangular
Guidance System:	Electronic Theodolite Come with 90° eye piece, 10 sec. accuracy
Hydraulic Power Pack:	Remote, Kohler 25 Hp petrol engine 19 kW (25 Hp) at 3600 rpm 70 Lpm (19 GPM) at 2000 PSI
Tooling:	+ 20 m of 70 mm Ø Pilot Tube System + 20 m of 100 mm Ø Auger System + 1 Cutting Head suites 150 mm OD Pipe
Notes:	Machine is supplied complete for installation of 20 m bores

Pilot Tube Microtunneler's Tooling

Pilot Tube System



Auger and Casing System




Final Pipe Assembly



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