

ROBBINS SBU DIVISION



SLURRY MICROTUNNELING (MTBM)

Microtunneling systems are the optimal choice for smaller diameter, unmanned tunnel boring projects. With these systems, the tunnel boring machine (MTBM) is driven and monitored remotely from the surface and is capable of single pass installations on line and grade per industry standards. The surface-located operation room houses the operator station and drive motor controls for the MTBM and its slurry pumps. Hydraulic power units for the main and intermediate jacking stations are housed separate to the operation room. Robbins has a full staff of field service and support personnel to train and assist as needed to ensure successful project completion.

MTBM APPLICATIONS

- Soft ground, mixed face and rock tunneling projects
- Operates below the water table up to 3 bar pressure
- Machines built to suit DIN Standards as well as common U.S. Standards
- Line and grade sensitive drives and curved drives
- Drives requiring specific casing types such as RCCP, vitrified clay, polymer-concrete, and steel casing

VERSATILE TUNNELING

Robbins MTBMs bore tunnels with unique and versatile specifications that are determined by customer preference as well as project and technical requirements.

Ranging in diameter from DN 1000 to DN 3000.

Soft ground, mixed face or rock formations.

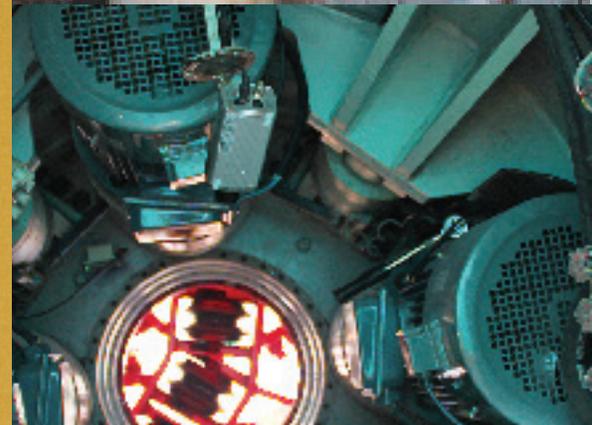
Standard systems can operate with hydrostatic head up to 3 bar.

Boring units of DN 1100 and larger can be manufactured with face access, which allows back-loading cutting tools to be safely changed and inspected from within the MTBM.

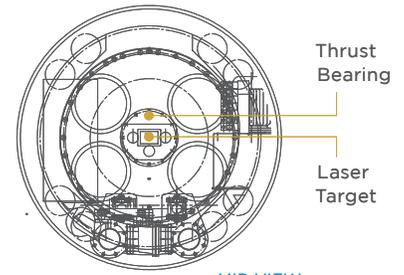
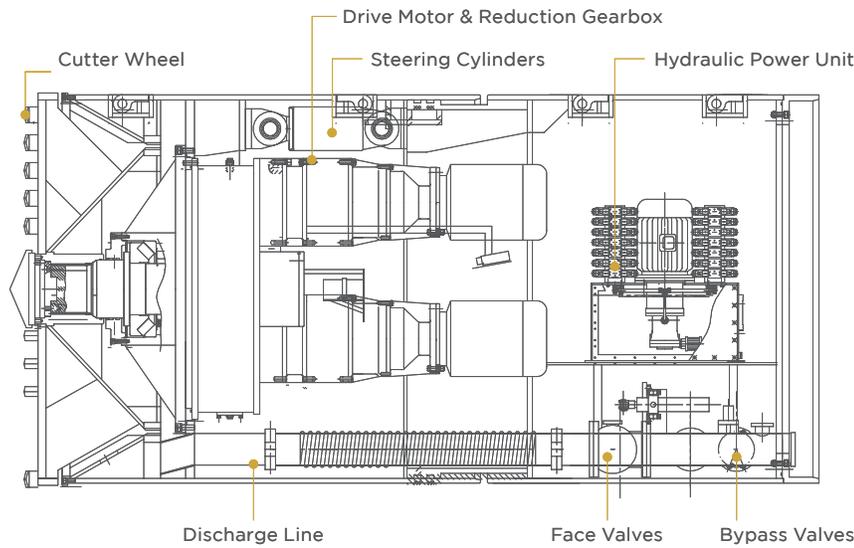
Offers both analog and digital guidance/data logging systems

Custom-sized machines are also available.

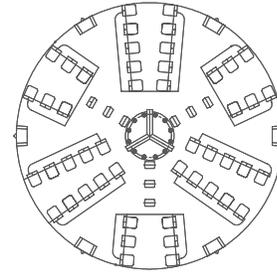
**AVAILABLE FOR
PURCHASE OR LEASE**



SLURRY MICROTUNNELING (MTBM)



MID VIEW



FRONT VIEW

SPECIFICATIONS

DN 1000

Outer Diameter - 50.9 in
 Pipe O/D - 50.4 in
 Power - 50 hp
 Torque - 50,892 lb-ft
 Speed - 0-5 rpm
 Main Jacks - 2 x 440,626 lbf

DN 1200

Outer Diameter - 59.3 in
 Pipe O/D - 58.7 in
 Power - 60 hp
 Torque - 59,743 lb-ft
 Speed - 0-5 rpm
 Main Jacks - 4 x 330,469 lbf

DN 1500

Outer Diameter - 71.3 in
 Pipe O/D - 70.1 in
 Power - 121 zhp
 Torque - 153,413 lb-ft
 Speed - 0-4 rpm
 Main Jacks - 4 x 330,469 lbf

DN 1800

Outer Diameter - 85 in
 Pipe O/D - 83.5 in
 Power - 118 hp
 Torque - 309,776 lb-ft
 Speed - 0-3 rpm
 Main Jacks - 4 x 440,626 lbf

DN 2000

Outer Diameter - 95 in
 Pipe O/D - 94.5 in
 Power - 161 hp
 Torque - 407,872 lb-ft
 Speed - 0-3 rpm
 Main Jacks - 4 x 440,626 lbf

DN 2200

Outer Diameter - 107.3 in
 Pipe O/D - 106.3 in
 Power - 161 hp
 Torque - 407,872 lb-ft
 Speed - 0-3 rpm
 Main Jacks - 6 x 440,626 lbf

DN 2400

Outer Diameter - 119 in
 Pipe O/D - 118.1 in
 Power - 241 hp
 Torque - 633,566 lb-ft
 Speed - 0-3 rpm
 Main Jacks - 6 x 440,626 lbf

DN 2600

Outer Diameter - 123.1 in
 Pipe O/D - 122.0 in
 Power - 241 hp
 Torque - 722,811 lb-ft
 Speed - 0-3 rpm
 Main Jacks - 6 x 440,626 lbf

DN 3000

Outer Diameter - 142.7 in
 Pipe O/D - 141.7 in
 Power - 298 hp
 Torque - 919,002 lb-ft
 Speed - 0-3 rpm
 Main Jacks - 8 x 440,626 lbf