

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 250 to DN 3000.

Soft ground, mixed face or rock formations.

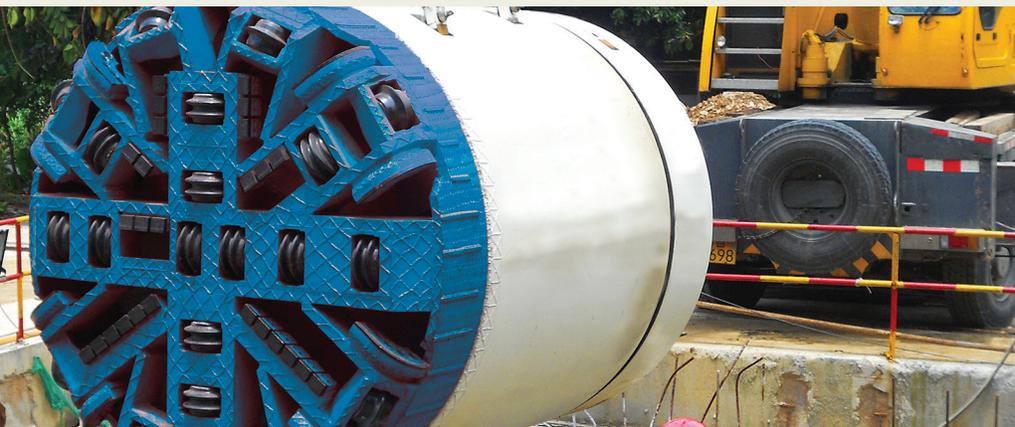
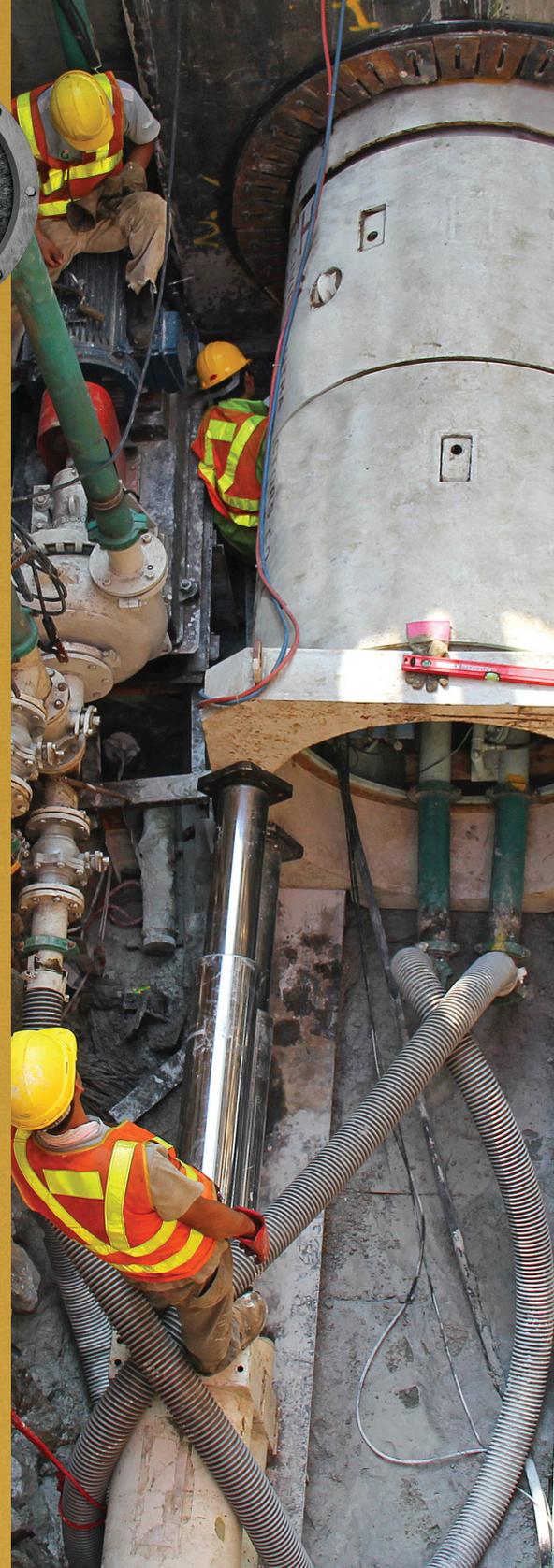
Standard systems can operate with hydrostatic head up to 3 bar.

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.

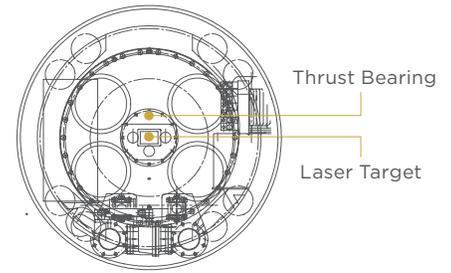
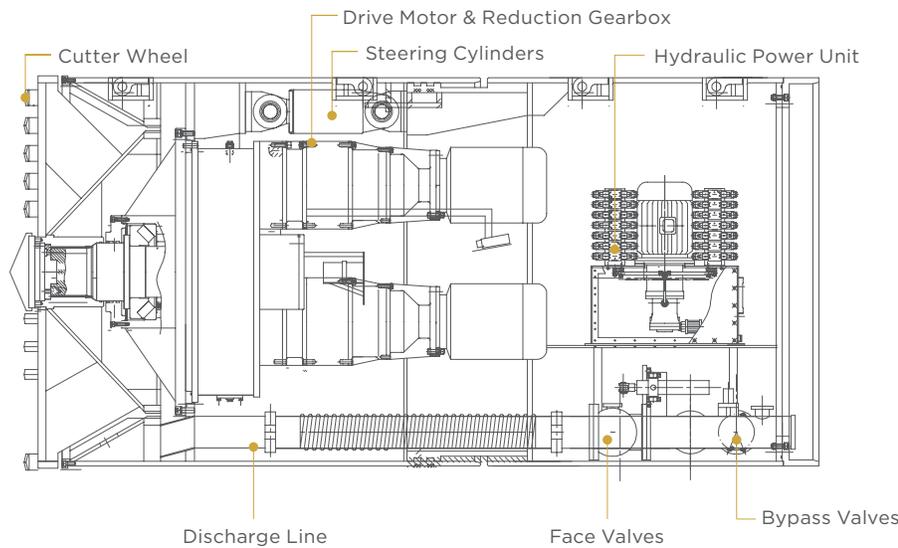
Offers both analog and digital guidance/data logging systems

Custom-sized machines are also available.

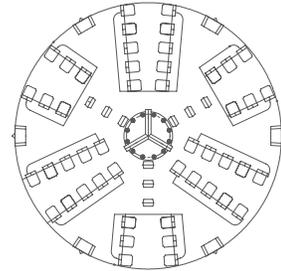
**AVAILABLE FOR
PURCHASE OR LEASE**



SLURRY MICROTUNNELING (MTBM)



MID VIEW



FRONT VIEW

SPECIFICATIONS

DN 250

Outer Diameter - 14.5 in
Pipe O/D - 14.2 in
Power - 3 hp
Torque - 2,213 lb-ft
Speed - 6 rpm
Main Jacks - 2 x 168,607 lbf

DN 450

Outer Diameter - 24.2 in
Pipe O/D - 23.6 in
Power - 5 hp
Torque - 6,638 lb-ft
Speed - 6 rpm
Main Jacks - 2 x 292,252 lbf

DN 900

Outer Diameter - 47.6 in
Pipe O/D - 46.9 in
Power - 40 hp
Torque - 40,566 lb-ft
Speed - 0-5 rpm
Main Jacks - 2 x 440,626 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 300

Outer Diameter - 16.1 in
Pipe O/D - 15.7 in
Power - 3 hp
Torque - 2,213 lb-ft
Speed - 6 rpm
Main Jacks - 2 x 168,607 lbf

DN 500

Outer Diameter - 26.2 in
Pipe O/D - 25.6 in
Power - 11 hp
Torque - 8,851 lb-ft
Speed - 6 rpm
Main Jacks - 2 x 330,469 lbf

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 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 350

Outer Diameter - 19.3 in
Pipe O/D - 18.7 in
Power - 4 hp
Torque - 2,950 lb-ft
Speed - 6 rpm
Main Jacks - 2 x 292,252 lbf

DN 600

Outer Diameter - 30.7 in
Pipe O/D - 29.9 in
Power - 20 hp
Torque - 16,964 lb-ft
Speed - 6 rpm
Main Jacks - 2 x 330,469 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 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 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 400

Outer Diameter - 22.2 in
Pipe O/D - 21.7 in
Power - 5 hp
Torque - 6,638 lb-ft
Speed - 6 rpm
Main Jacks - 2 x 292,252 lbf

DN 800

Outer Diameter - 43.7 in
Pipe O/D - 42.9 in
Power - 29 hp
Torque - 25,077 lb-ft
Speed - 0-6 rpm
Main Jacks - 2 x 440,626 lbf

DN 1500

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



CORPORATE HEADQUARTERS The Robbins Company 29100 Hall Street Solon, Ohio 44139 USA
P + 1 440 248 3303 F + 1 440 248 1702 Email sbusales@robbinstbm.com
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