

ROBBINS SBU DIVISION



MOTORIZED SMALL BORING UNIT (SBU-M)

The Motorized SBU is the optimal choice for longer utility installations (over 300 ft) or for crossings with specific line and grade requirements. The SBU-M is an intermittently manned, articulated mixed ground and hard rock boring machine for use with standard Auger Boring Machines (ABMs) or pipe jacking systems. The SBU-M is attached to the lead pipe or casing and uses disc cutters to excavate rock, or a mixture of both disc cutters and soft ground tooling for mixed ground. A small invert auger or vacuum system removes spoils from the face. The SBU-M is bolted to the lead casing prior to excavation for shorter starter and exit shafts. An in-shield motor provides torque to the cutterhead, while forward thrust is derived through the casing via the ABM.

SBU-M APPLICATIONS

- Pipe jacking
- Line- and grade-sensitive rock crossings
- Alternative to microtunnelling in dry to near dry rock/ mixed ground conditions

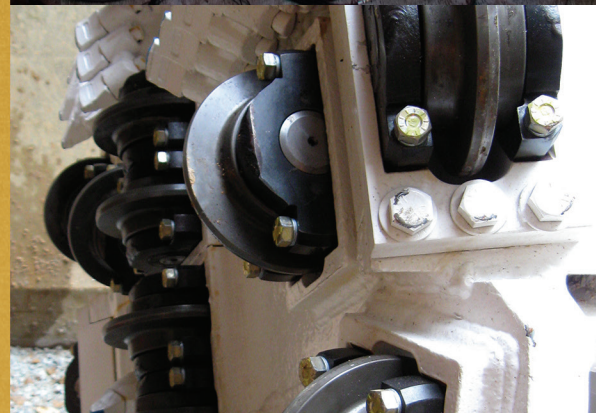
THE MOST ACCURATE TUNNELING

The SBU-M can be steered throughout the drive from an operator's console inside the rear shield. Articulation cylinders and manually adjustable stabilizer pads allow for continuous control of line and grade. Accuracy is continuously monitored using a laser targeting system.

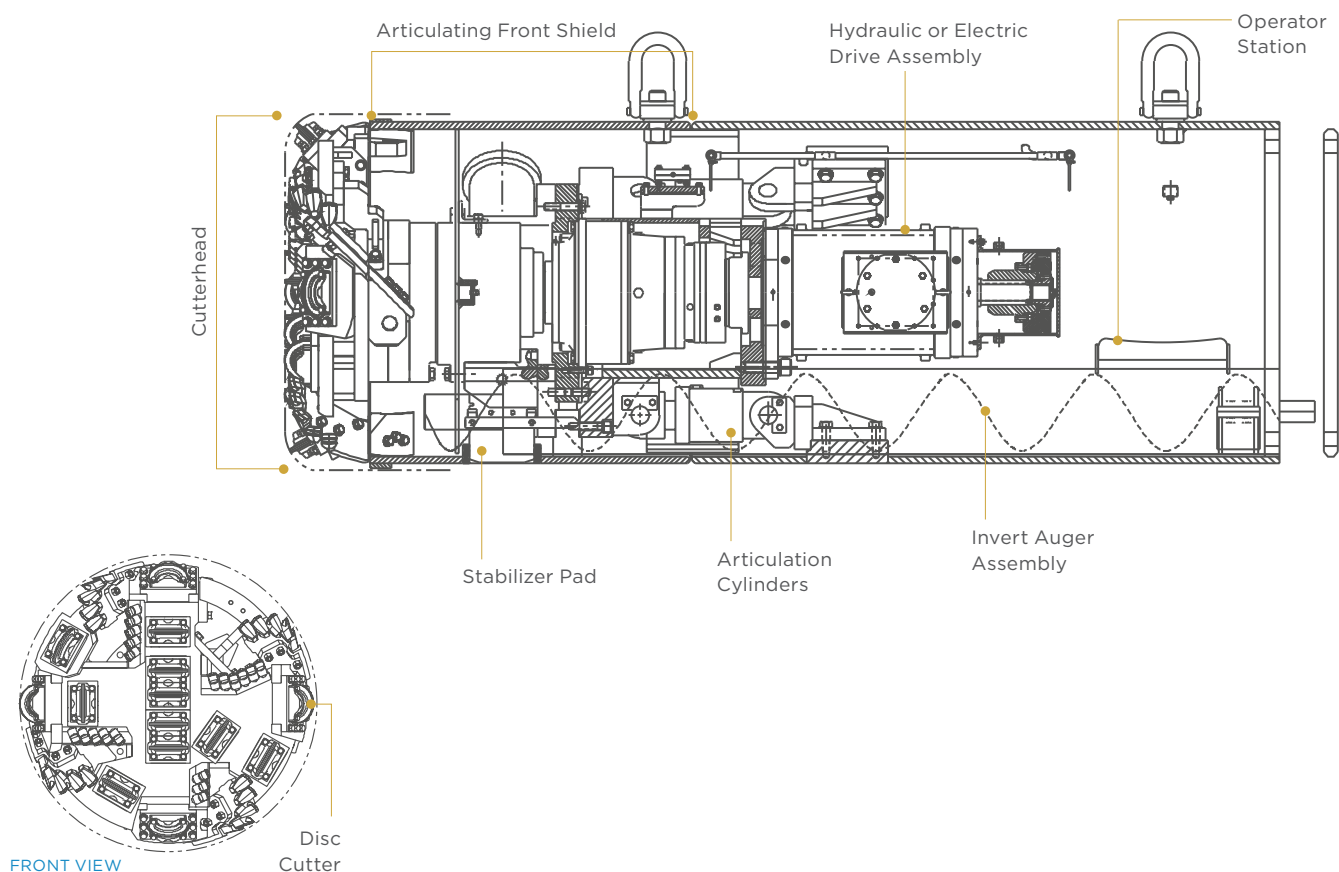
A COST EFFECTIVE SOLUTION

The SBU-M offers more efficient excavation than typical carbide bit or roller cone cutting heads. Most carbide tools tend to break off in rock above 8,000 psi UCS. The SBU-M uses disc cutters to chip away hard rock from 4,000 to over 25,000 psi UCS.

AVAILABLE FOR PURCHASE OR LEASE



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SPECIFICATIONS

MACHINE DIAMETERS

48 to 78 inches

ROCK STRENGTHS

4,000 to over 25,000 psi UCS

GROUND CONDITIONS

Medium to hard rock or mixed ground

CUTTERHEADS

Both hard rock and mixed ground cutterheads are available

CUTTERS

All machines are equipped with 6.5, 9.5, 11.5, or 14 inch discs

HYDRAULIC AND ELECTRIC MOTORS ARE AVAILABLE.
CONTACT US FOR MORE INFORMATION ON HYDRAULIC MODELS.

SBU-M 48

Bore Diameter - 50 in
Approx. Weight - 11 tons
Approx. Length - 12 ft
Power Required -
380/440 V; 3 Phase; 168 HP

SBU-M 54

Bore Diameter - 56 in
Approx. Weight - 14 tons
Approx. Length - 12 ft
Power Required -
380/440 V; 3 Phase; 168 HP

SBU-M 60

Bore Diameter - 62 in
Approx. Weight - 18 tons
Approx. Length - 14 ft
Power Required -
380/440 V; 3 Phase; 335 HP

SBU-M 66

Bore Diameter - 68 in
Approx. Weight - 18 tons
Approx. Length - 14 ft
Power Required -
380/440 V; 3 Phase; 335 HP

SBU-M 72

Bore Diameter - 74 in
Approx. Weight - 19 tons
Approx. Length - 15 ft
Power Required -
380/440 V; 3 Phase; 470 HP

SBU-M 78

Bore Diameter - 80 in
Approx. Weight - 19 tons
Approx. Length - 15 ft
Power Required -
380/440 V; 3 Phase; 470 HP



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