SBU Division

Motorized Small Boring Unit (SBU-M)

Technical Description

The Motorized SBU is the optimal choice for longer utility installations (over 500 ft) or for crossings with specific line and grade requirements. The SBU-M is a manned-entry, hard rock boring machine for use with a standard Auger Boring Machine (ABM) or pipe jacking unit. The SBU-M uses disc cutters to excavate rock, while 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 drive train, while forward thrust is derived through the casing.

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 control of line and grade. Accuracy is continuously monitored using a laser targeting system.

A Cost Effective Solution

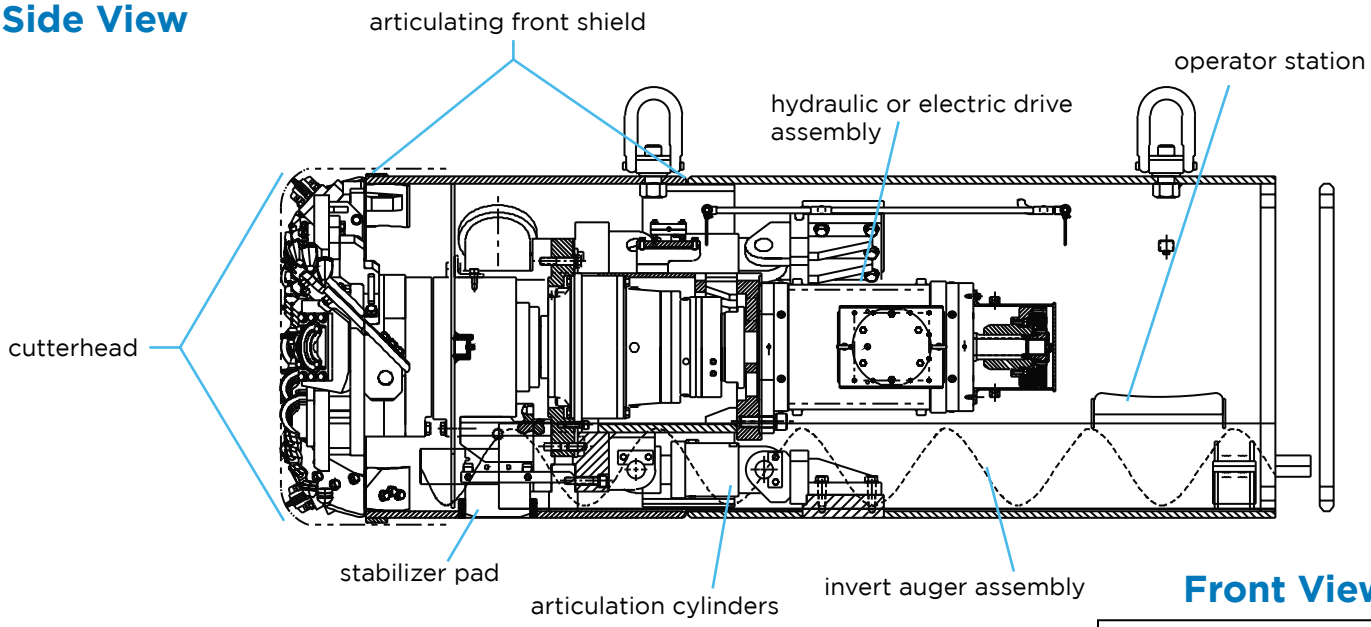
The SBU-M offers more efficient excavation than typical carbide bit or roller cone cutting heads. Most carbide cutting tools tend to break off in rock above 11,000 psi UCS. The SBU-M uses disc cutters to chip away hard rock from 4,000 to over 25,000 psi UCS.

SBU-M APPLICATIONS

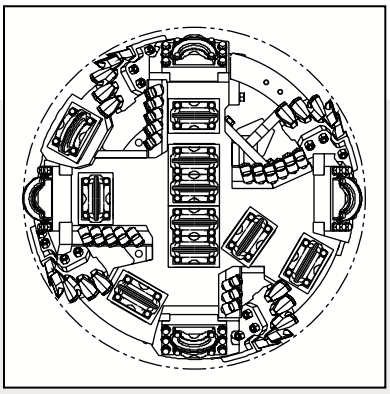
- Pipe jacking
- Line- and grade-sensitive rock crossings
- Replacement for carbide bit and roller cone cutterheads
- Bore lengths over 500 ft

AVAILABLE FOR PURCHASE OR LEASE

Side View



Front View



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 can be equipped with 6.5, 9.5, 11.5, or 14 inch discs

NOTE: 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	440+/- V; 3 Phase; 50/60 Hz

SBU-M 54

Bore Diameter	56 in
Approx. Weight	14 tons
Approx. Length	12 ft
Power Required	440+/- V; 3 Phase; 50/60 Hz

SBU-M 60

Bore Diameter	62 in
Approx. Weight	18 tons
Approx. Length	14 ft
Power Required	440+/- V; 3 Phase; 50/60 Hz

SBU-M 66

Bore Diameter	68 in
Approx. Weight	18 tons
Approx. Length	14 ft
Power Required	440+/- V; 3 Phase; 50/60 Hz

SBU-M 72

Bore Diameter	74 in
Approx. Weight	19 tons
Approx. Length	15 ft
Power Required	440+/- V; 3 Phase; 50/60 Hz

SBU-M 78

Bore Diameter	80 in
Approx. Weight	19 tons
Approx. Length	15 ft
Power Required	440+/- V; 3 Phase; 50/ 60 Hz

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