

Rockhead (SBU-RHSS or SBU-RHDS)

Technical Description

The Robbins Rockhead is ideal on longer utility installations (over 300 m) where line and grade are critical. The Rockhead is available in Double Shield (SBU-RHDS) or Single Shield (SBU-RHSS) models. The Double Shield Rockhead is self-propelled using a gripper system. The Single Shield Rockhead must be used in conjunction with a pipe-jacking system or primary liner erected in the tailshield. Muck is removed using a small invert auger, vacuum system or muck cars.

Guided Tunnelling

The Rockhead can be steered throughout the drive from an operator's console inside the rear shield. Articulation cylinders and stabilizer pads allow for continuous control of line and grade. The machine's heading can be continuously monitored using a laser targeting system.

A Cost Effective Solution

The Rockhead offers more efficient excavation than typical carbide bit or roller cone cutting heads. Most carbide cutting tools tend to break off in rock above 75 MPa UCS. The Rockhead uses disc cutters to chip away hard rock from 25 to over 175 MPa UCS.



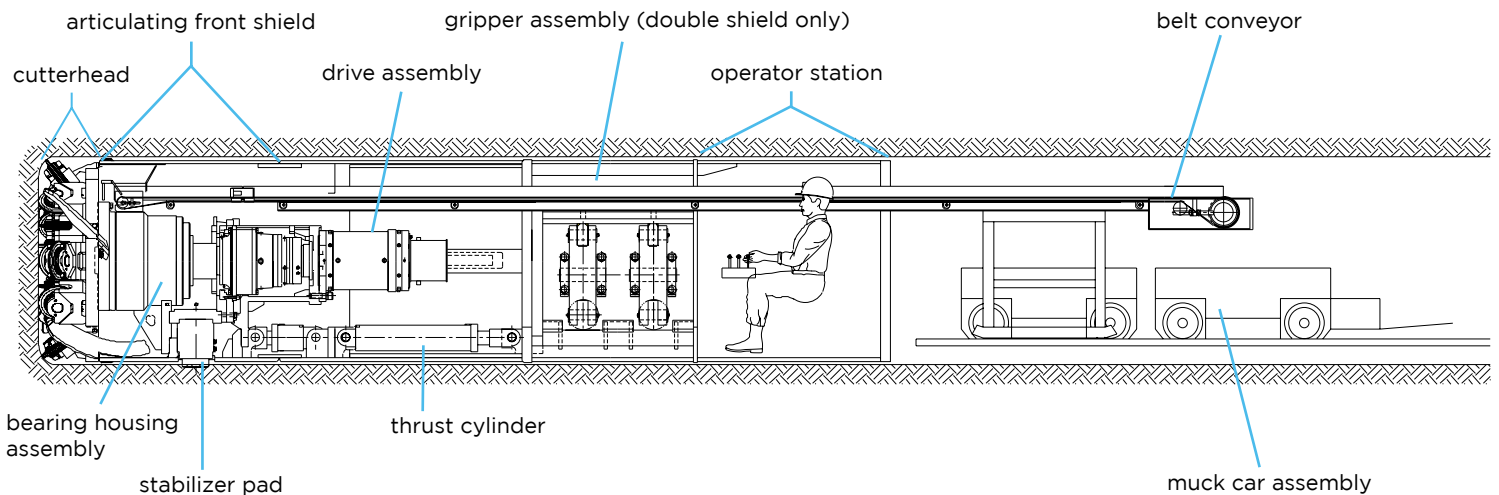
ROCKHEAD APPLICATIONS

- Line- and grade-sensitive crossings
- Replacement for carbide bit and roller cone cutterheads
- Long bore lengths over 300 m
- Pipe jacking

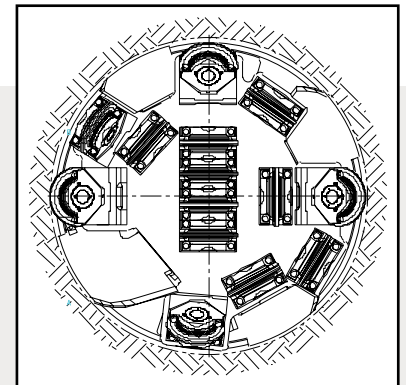
AVAILABLE FOR PURCHASE OR LEASE



Side View



Front View



SPECIFICATIONS

MACHINE DIAMETERS	1.4 to 2.0 m
MACHINE LENGTHS	6.0 to 8.0 m
ROCK STRENGTHS	25 to over 175 MPa UCS
GROUND CONDITIONS	Medium to hard rock, or mixed ground

CUTTERHEAD FEATURES

- +/- 2 degrees articulation for steering
- Man access to face for cutter inspection and replacement
- Center shaft style cutterhead support
- Both hard rock and mixed ground versions available

CUTTER OPTIONS

- 6.5", 9.5", 11.5", or 14" diameter cutters
- Single disc cutters
- Single or two-row tungsten carbide cutters
- Tungsten carbide cutters and bullet bits, ripper teeth, scrapers, and backhoe teeth

MUCK REMOVAL OPTIONS

- Belt conveyor
- Muck car
- EPB auger

CUTTERHEAD DRIVE SYSTEM OPTIONS

- Fixed-speed electric
- Two-speed electric
- Variable-speed electric
- Variable-speed hydraulic

THRUST SYSTEM FEATURES

- In-shield hydraulic propulsion
- Pipe jacking station optional
- Self-propelled SBU-RHDS with gripper system

CARRIER PIPE OPTIONS

- Steel casing
- Ring beam and board
- Reinforced concrete pipe
- Four-flange liner plate

CORPORATE HEADQUARTERS

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