

ROBBINS SBU DIVISION

Metric Version



ROCKHEAD (SBU-RHSS OR SBU-RHDS)

The Robbins Rockhead is ideal on longer utility installations (over 150 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 can be removed using a small invert auger or muck cars.

ROCKHEAD APPLICATIONS

- Line-and grade-sensitive crossings
- Replacement for carbide bit and roller cone cutterheads
- Long bore lengths
- Pipe jacking up to 300 m+
- Tunneling up to 600 m+

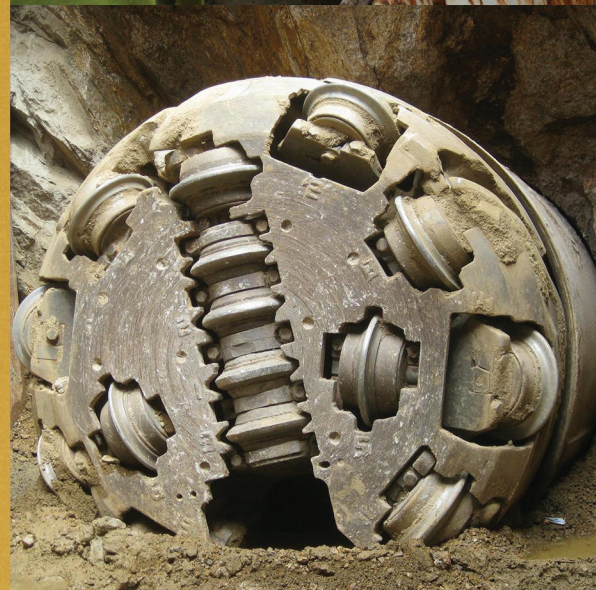
GUIDED TUNNELLING

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.

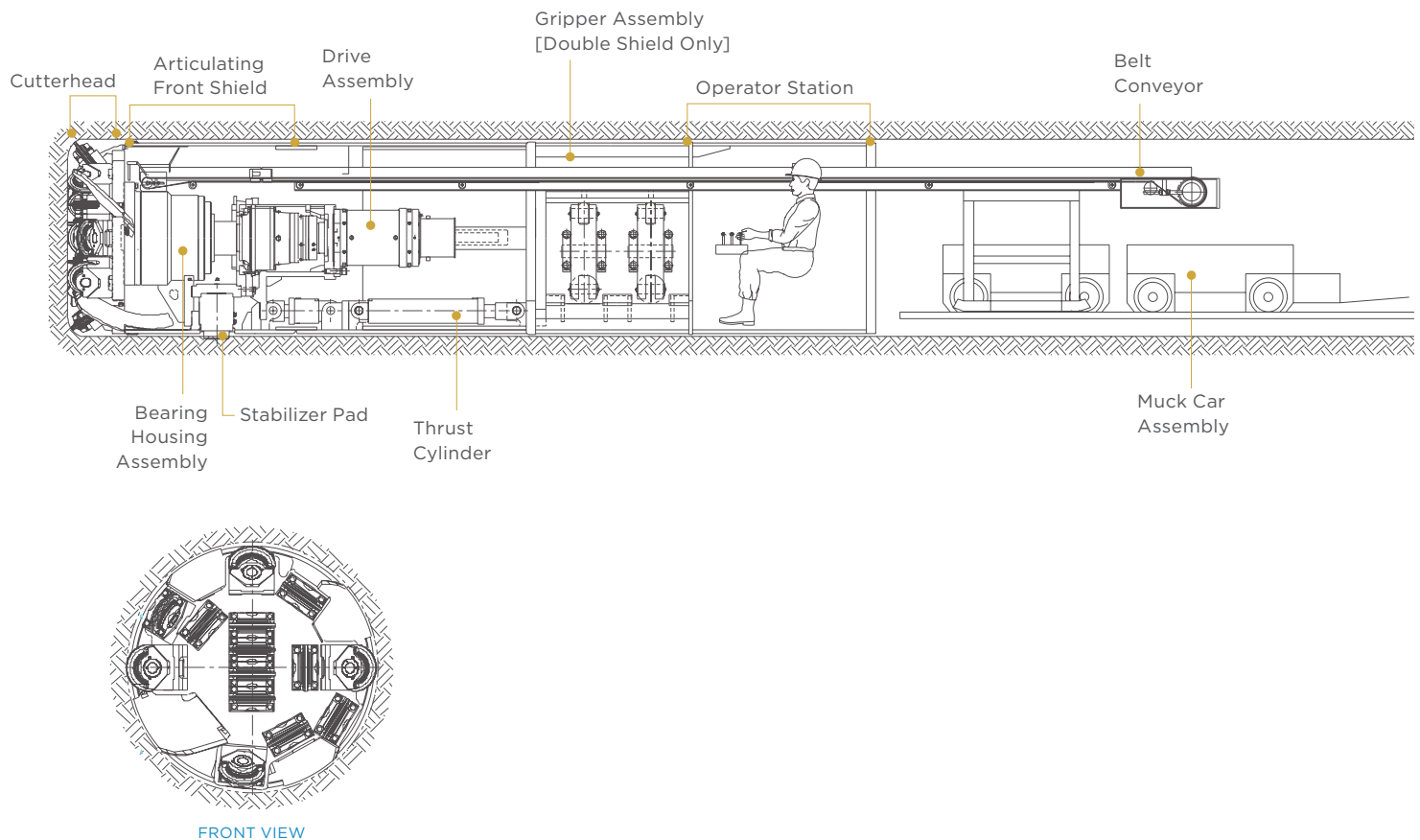
A COST EFFECTIVE SOLUTION

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 50 MPa UCS. The Rockhead uses disc cutters to chip away hard rock from 25 to over 175 MPa UCS.

AVAILABLE FOR PURCHASE OR LEASE



ROCKHEAD (SBU-RHSS OR SBU-RHDS)



SPECIFICATIONS

MACHINE DIAMETERS

1.5 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

165, 241, 292, or 356 mm 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