



RAISE BORE DIVISION SBM 800

**FAST.
EFFICIENT.**
RESPONSIVE.

1000V HYDRAULIC DRIVE MACHINE

The SBM 800 is a large diameter raise bore ideally suited to surface and underground ventilation raises, shafts and ore passes. The rig has a compact, lightweight design which fits into smaller underground excavations.

FEATURES

- Capable of reaming 3.5m to 6.0m diameter rises, up to 600m in length
- Fully compatible with directional drilling technology, allowing the drill to deliver vertical excavation when needed

INTEGRATED UNDERGROUND MINING SERVICES:

- Mine development
- Production mining
- Cable bolting, production drilling and ITH drilling
- Raise boring and specialist boxhole boring
- Shotcreting
- Plant and equipment hire

SBM 800

1000V Hydraulic Drive Machine

OPERATIONAL

Conventional Ream Diameter	Diameter Length	3.5m to 6.0m 600m
Raise Angle	Ream Mode	45 degrees to vertical
Pilot Hole Diameter	Normal Maximum	13-3/4" (349mm) 15" (381mm)

TECHNICAL

Rotation System	Type	Hydraulic Drive
Pilot Drilling Data	Pilot RPM Pilot Thrust	0 – 65RPM variable 446kN (100,000lbs)
Reaming Data	Reaming RPM Reaming Thrust Reaming Torque Maximum Torque	0 – 10RPM variable 5,070kN (1,140,000lbs) 450kNm (332,000ft/lbs) 551kNm (406,000ft/lbs)
Drill Pipe Data	Diameter Length s/s	HS 12-7/8" (327mm) 1.525m

ELECTRICAL

Power Supply	Main Supply Generator Transformer Supply Cable Size	1000V, 50hz 750Kva 500Kva 120mm²
Power Pack Supply	Power Rating Full Load Current Starter Type Start Up Current Voltage	300kW (400Hp) 217A Soft Starter 553A 1000V

CONSUMPTION

Air	Pilot Drilling Air	23m³/min @ 7 bar (600cfm @ approximately 100psi)
Water	Pilot Drilling Water Cooling Water	Approximately 900 litres/min which is recirculated via sumps Approximately 75 litres/min

WATER PUMP

Water Recycling	Pilot Drilling Water	90kW (pending pilot hole diameter and length)
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RAISE BORE RIG

Dimensions	Extended Height Height Retracted Width Depth Weight Standard Beams	4.800m 3.600m 2.200m 2.100m 22.0 tons 6.0m x 500mm high beams 8.0m x 500mm high beams
Transporter	On Sled	With inbuilt erection device