



# RAISE BORE DIVISION REDBORE 40-SDR

**FAST.  
EFFICIENT.  
RESPONSIVE.**

## 1000V HYDRAULIC DRIVE MACHINE

The Redbore 40-SDR is a small, compact rig designed primarily for production slot rises and escape way rises. It is a simple and straight forward hydraulic drive machine and the ideal slot solution. The rig can be configured from conventional reaming mode to down-hole reaming mode for stope recovery down slots, eliminating the need for bottom hole access.

## FEATURES

- Capable of reaming 1.1m to 1.5m diameter rises, up to 152m in length
- Designed for flexible set up
- Wheel-bound, making it exceptionally easy to move between drill sites

## 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

**PYBAR**  
MINING SERVICES  
LEADERS IN UNDERGROUND MINING

# Redbore 40-SDR

## 1000V Hydraulic Drive Machine

OPERATIONAL		
Conventional Ream Diameter	Diameter	1.1m to 1.5m
	Length	152m
Down-hole Ream Diameter	Diameter	725mm
	Length	60m
Raise Angle	Ream Mode	45 degrees to vertical
	Down-hole Mode	45 degrees to vertical
Pilot Hole Diameter	Normal	9" (228mm)

TECHNICAL		
Rotation System	Type	Hydraulic Drive
Pilot Drilling Data	Pilot RPM Pilot Thrust	0 – 80RPM variable 222kN (50,000lbs)
Reaming Data	Reaming RPM Reaming Thrust Reaming Torque Maximum Torque	0 – 12RPM variable 1,023kN (230,000lbs) 46kNm (33,750ft/lbs) 57kNm (42,000ft/lbs)
Drill Pipe Data	Diameter Length s/s	HS 8" (203mm) 1.525m

ELECTRICAL		
Power Supply	Main Supply Generator Transformer Supply Cable Size	1000V, 50hz 300Kva 250Kva 32mm <sup>2</sup>
Power Pack Supply	Power Rating Full Load Current Starter Type Start Up Current Voltage	150Kw (200Hp) 108A Soft Starter 260A 1000V

CONSUMPTION		
Air Consumption	Pilot Drilling Air	12m <sup>3</sup> /min @ 7 bar (300cfm @ approximately 100psi)
Water Consumption	Pilot Drilling Water Cooling Water	Approximately 500 litres/min which is recirculated via sumps Approximately 60 litres/min

WATER PUMP		
Water Recycling	Pilot Drilling Water	20kW (pending pilot hole diameter and length)

RAISE BORE RIG		
Dimensions	Extended Height Height Retracted Width Depth Weight Standard Beams	3.600m 3.100m 1.420m 1.400m 5.3 tons 2.5m x 300mm high beams
Transporter	Volvo 120F or simulate	Built-in erection device