

## RAISE BORE DIVISION REDBORE 50-MDUR

FAST.
EFFICIENT.
RESPONSIVE

### 1000V ELECTRIC DRIVE MACHINE

The Redbore 50-MDUR is a compact dual purpose rig specifically designed for conventional rises and boxhole slot rises while maintaining a low profile. It provides a complete boxhole and down-hole slot solution.

#### **FEATURES**

- Capable of reaming 1.1m to 1.5m diameter up-hole slots up to 60m in length and conventional rises up to 2.1m in diameter and up to 183m in length
- Retractable wrenching arm system and lay-down rod handler
- Electric PLC drive system to improve transfer of energy and reduce power consumption

#### 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



# Redbore 50-MDUR 1000V Electric Drive Machine

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Up-hole Slot Diameter	Diameter Length	1.1m to 1.5m 60m
Conventional Ream Diameter	Diameter Length	1.1m to 2.1m 183m
Raise Angle	Up-hole Slot Mode Ream Mode	45 degrees to vertical 45 degrees to vertical
Pilot Hole Diameter	Normal Maximum	11" (297mm) 12-1/4" (312mm)

TECHNICAL	ECHNICAL		
Rotation System	Туре	Electric 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 – 10RPM variable 1,334kN (300,000lbs) 92kNm (68,000ft/lbs) 122kNm (90,091ft/lbs)	
Drill Pipe Data	Diameter Length s/s	HS 10" (254mm) 1.220m	

ELECTRICAL			
	Main Supply	1000V, 50hz	
Power Supply	Generator	250Kva	
l ower Supply	Transformer	200Kva	
	Supply Cable Size	35mm <sup>2</sup>	
	Power Rating	127kW (170Hp)	
	Full Load Current	170A	
Power Pack Supply	Starter Type	VSD	
	Start Up Current	210-250A	
	Voltage	1000V	

CONSUMPTION		
Air	Pilot Drilling Air	17m³/min @ 7 bar (400cfm @ approximately 100psi)
Water	Pilot Drilling Water  Cooling Water	Approximately 500 litres/min which is recirculated via sumps Approximately 75 litres/min

WATER PUMP				
	Water Recycling	Pilot Drilling Water	37kW (pending pilot hole diameter and length)	

RAISE BORE RIG		
Dimensions	Depth Weight	4.100m 4.100m 2.400m 1.926m 14.1 tons 3.0m x 400mm high beams
Transporter	On Sled	With inbuilt erection device



