

# POWERFUL SHAFT BORING RBR400-VF

With its modular design and powerful electric drive, PYBAR's RBR400 – VF rig is ideal for long raises and large reaming diameters.

The mechanised drill rod handling and wrench system offers safe and easy handling ensuring high efficiency.

• For long raises and large reaming diameters

- Robust and powerful design
- Mechanised wrench system and rod handling for improved work safety
- Highly efficient variable frequency drive
- Full capacity drilling is possible due to high maximum torque and thrust forces
- Designed for construction of shafts up to 6m in diameter to depths of 800m in hard rock.

AGILE.

EFFICIENT.

#### INTEGRATED UNDERGROUND MINING SERVICES:

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

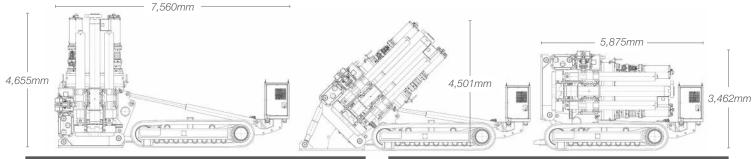








## **RAISE BORING RIG RBR400-VF**



#### RIG DIMENSIONS

Height retracted 4.85m (15.91 ft) Height extended 6.60m (21.65 ft) 2.26m (7.41ft) Width 2.37m (7.78ft) Depth Weight 39t (85.980lb)

Modular design for high degree of flexibility.

## CRAWLER

Diesel powered hydraulic drive Drive

Power 52kW (70hp) Grade Max. +25 % Optional Forklift equipment

Crawler for quick and easy movement and erection of the rig.

## MAIN DRIVE UNIT

Installed power 360kW (483hp) Drive Electric (VF) Number of motors

The powerful electric drive is ideal for long raises and large reaming diameters. Variable speed and torque limiting control.

# HYDRAULIC POWER UNIT

Power 110kW (148hp) Water cooled Cooling

#### COOLING UNIT

Power 44kW Cooling Water cooled

## TRANSFORMER UNIT

440V Input voltage Frequency 50/60Hz Output voltage 440V

## CONTROL STATION

Controls Touch screen and control panel

# PIPE HANDLER

1,000kg (2,205lb) Load Handling system Mechanised

Optional: Axial drill rod adjustment

# WRENCH SYSTEM

Handling system Mechanised wrap around wrench Optional Fully hydraulically operated Mechanised drill rod handling and wrench system for safe and easy handling.

#### **DRIVEHEAD**

Float 90 mm (3.54 inch)

Swivel ±1°

Optional Active float system

Drivehead with swivel and float function saves drill rod threads. Active float to reduce weight on threads while make up and break out operation.

## TECHNICAL SPECIFICATIONS

Drill rod	Diameter	327mm	12-7/8"
	Length s/s	1,524mm	60"
Pilot hole diameter	Diameter	349 - 381mm	13-3/4" - 15"
Raise diameter	Nominal	5.0m	16.4ft
	Range	2.4m - 6.0m	7ft - 20ft
Raise length	Nominal	600m	1,950ft
	Maximum	800m	2,625ft
Drill angle	(from horizontal)	0° - 45°	
Maximum torque	Reaming	452kNm	333,000lbf.ft
	Break-out	600kNm	442,000lbf.ft
Reaming thrust	Operating maximum	9,200kN	2,248,000lbf
RPM	Piloting	0 - 50 RPM	
	Reaming	0 - 13 RPM	
Traverse rate	Fast traverse rate	2.2m/min	7ft/min
	Feed rate	0.3m/min	1ft/min
Stroke		2.3m	7.55ft
Electrical	Power supply	400kW (0.8)	
	Voltage	440V	
	Frequency	50 60Hz	
	Power required	500kVA (50/60Hz)	
Bailing	Water	600I/min	159gal/mm
	Air	18m³/min (7 bar)	636ft³/min (100psi)
Cooling water	At 25°C inlet temp.	160l/min	42gal/min

## OPTIONAL EQUIPMENT

- Digital Drilling Report
- High pressure flushing pump
- Transformer - Pipe Feeder
- Transport frame
- Control Cabinet
- Chiller system
- Flow meters
- Drilling tools
- Other tools on request

**PYBAR Mining Services** 1668-1670 Forest Road Orange NSW 2800

raisebore@pybar.com.au P 02 6361 4499 **PYBAR.COM.AU** 



