



DRILLING | MINING | RAISEBORING



**CAPABILITY PROFILE**

# INTRODUCTION TO HMR

HMR is a dynamic and innovative national mining contractor committed to delivering exceptional solutions and services to our clients. With a strong focus and a belief that safety and production go hand in hand, we strive build mutually beneficial relationships that exceed expectations and create lasting value for our partners.

We have been providing drilling services throughout Australia since 2008 and have recently expanded our suite of services to include mining, raiseboring and shaft lining. These additional services now allow HMR to be a Turnkey Mining Services provider. With over 30 years of contracting experience and supported by an experienced management team with offices and workshops based in Kalgoorlie, WA and Orange, NSW, we are well positioned to support our service offering throughout Australia.

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## OUR VISION

To be a first-class provider of contract drilling, mining & raiseboring services to the mining and exploration industry.

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## OUR VALUES

Our Values will enable us to achieve our Vision.

**SAFETY** | **SERVICE** | **RESPECT** | **RESULTS**





# OUR CAPABILITIES

DRILLING	MINING	RAISE BORING & SHAFT LINING
Exploration & Grade control drilling	Turnkey mining services	Pilot drilling
Narrow vein grade control (small areas)	High speed development	Directional drilling
Deep hole & directional drilling	Cable bolting & Production drilling	Conventional reaming up to 900m in depth and 6.0m in diameter
Shallow angle surface drilling	Service Crew	Shaft stabilisation and support
Small footprint surface drilling	Project management	Remote shotcreting to 500m
Geo-technical drilling	Labour hire	
RC drilling	Wet/Dry equipment hire	



# DRILLING SERVICES

## UNDERGROUND DRILLING

- Diamond Core
- Exploration & Grade Control
- Deep hole & directional drilling

## SURFACE DRILLING

- Reverse Circulation (RC)
- Diamond Core
- Exploration & Grade Control
- Deep hole & directional drilling

## UNDERGROUND DRILLS

- |                                  |                |          |
|----------------------------------|----------------|----------|
| • Platform Drill Rigs 90kw/110kw | (BQ / NQ / HQ) | 1500m NQ |
| • Mobile Drill Rigs 90kw/110kw   | (BQ / NQ / HQ) | 900m NQ  |
| • Diesel Skid Steer Drill Rigs   | (BQ / NQ)      | 200m BQ  |

## SURFACE DRILLS

- |            |                     |          |
|------------|---------------------|----------|
| • UDR 1200 | (NQ / HQ / PQ / RC) | 3000m NQ |
| • UDR 1000 | (NQ / HQ / PQ)      | 1000m NQ |
| • UDR 650  | (NQ / HQ / PQ)      | 800m NQ  |
| • LF90     | (NQ / HQ / PQ)      | 800m NQ  |







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# Diamec Smart 6

## Underground Mobile Diamond Drill



*The **Diamec Smart 6M** from Epiroc combines the best of two worlds – the high productivity and accuracy of a **Diamec** core drilling rig, with the mobility of a well-proven, robust carrier designed for underground use.*

*The **Diamec Smart 6M** offers unparalleled productivity in underground exploration.*

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## Key Features

### ➤ Fast & Efficient Drilling

- ✓ Advanced, versatile, and compact design for increased mobility.
- ✓ Carrier based on the Boomer S2 platform, allowing quick setup and easy positioning.
- ✓ Articulated carrier and manoeuvrable boom enable drilling at difficult angles.

### ➤ Ergonomic & Safe Operation

- ✓ Logically placed controls with a lightweight panel that can be positioned inside or outside the cabin.
- ✓ FOPS & ROPS-approved cabin ensures a safe and comfortable working environment.
- ✓ Operator remains at a safe distance during drilling with integrated guard and rod handling system.

### ➤ Increased Productivity & Lower Costs

- ✓ Advanced Rig Control System allows for automatic operation.
- ✓ Auto-drilling improves bit life, reduces core blockage, and minimizes hole deviation.
- ✓ Lowers operator fatigue and reduces manual drilling errors.

### ➤ Data Logging & Exploration Manager

- ✓ Measure While Drilling (MWD) records key drilling parameters.
- ✓ Optional operational data logging provides real-time activity tracking.
- ✓ Exploration Manager software analyses data, enhances productivity, and optimises fleet management.

## Core drilling hole length capacity

Hole Size	Standard		Deep hole	
	Down	Up	Down	Up
BO/BT	1065m	600m	1530m	920m
NO/NT	715m	340m	1080m	575m
HQ/HT	335m	155m	580m	310m

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# Surface Drilling

## UDR1200 (DE880) Package

### UDR 1200 – Multi-purpose Drill - Diamond & RC

- ✓ Upgraded DE 880.
- ✓ High Capacity – 3000m NQ.
- ✓ Tier 1 Safety Features.

#### PACKAGE INCLUDES:

- UDR 1200 (Truck mounted)
- Tatra 8x8 Rod Truck
- Volvo 6x6 Crew Truck
- Explorex Office Van
- Sample Trailer (RC)
- Air Truck available (RC)

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*The DE880 is the most powerful drill rig within the Sandvik range of exploration drill rigs. It has the greatest depth capacity when core drilling due to its large main winch and wireline winch.*

- DA554 rod handler - allows handling up to 200 kg rods (4.5" diameter)
- Rod presenter – for minimising manual handling
- DA512 Safe-T-Spin - pre-torque/make/break device to improve safety and productivity when tripping rods
- Spin Cage – protection from rotating drill string
- Rod fall protection - reduces risk of rod fall injury
- RC swivel, blowdown and slips system (4.5" Remet) - converts rotation unit to RC drilling

#### HOLE DEPTH CAPACITY

Hole Size	Depth
NQ	3174m
HQ	2125m
PQ	1436m
RC (4")	525m

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# MINING SERVICES

## TURNKEY MINING SERVICES

- Boxcut and portal establishment
- Decline, incline and lateral development
- Development and associated ground support
- Production drilling and blasting
- Haulage
- Shotcreting

## PROJECT MANAGEMENT

- Short and long term
- Planning and scheduling
- Project costing
- Project optimisation

## HIGH SPEED DEVELOPMENT

- Single heading high speed specialist

## PRODUCTION & CABLE BOLTING

- Short campaign or long term
- Up and down holes

## EQUIPMENT HIRE (WET/DRY)

- Short or long term

## LABOUR HIRE



# RAISEBORING

## PROJECT MANAGEMENT

- Highly experienced personnel

## SITE ESTABLISHMENT

- Design and installation of foundations

## PILOT DRILLING

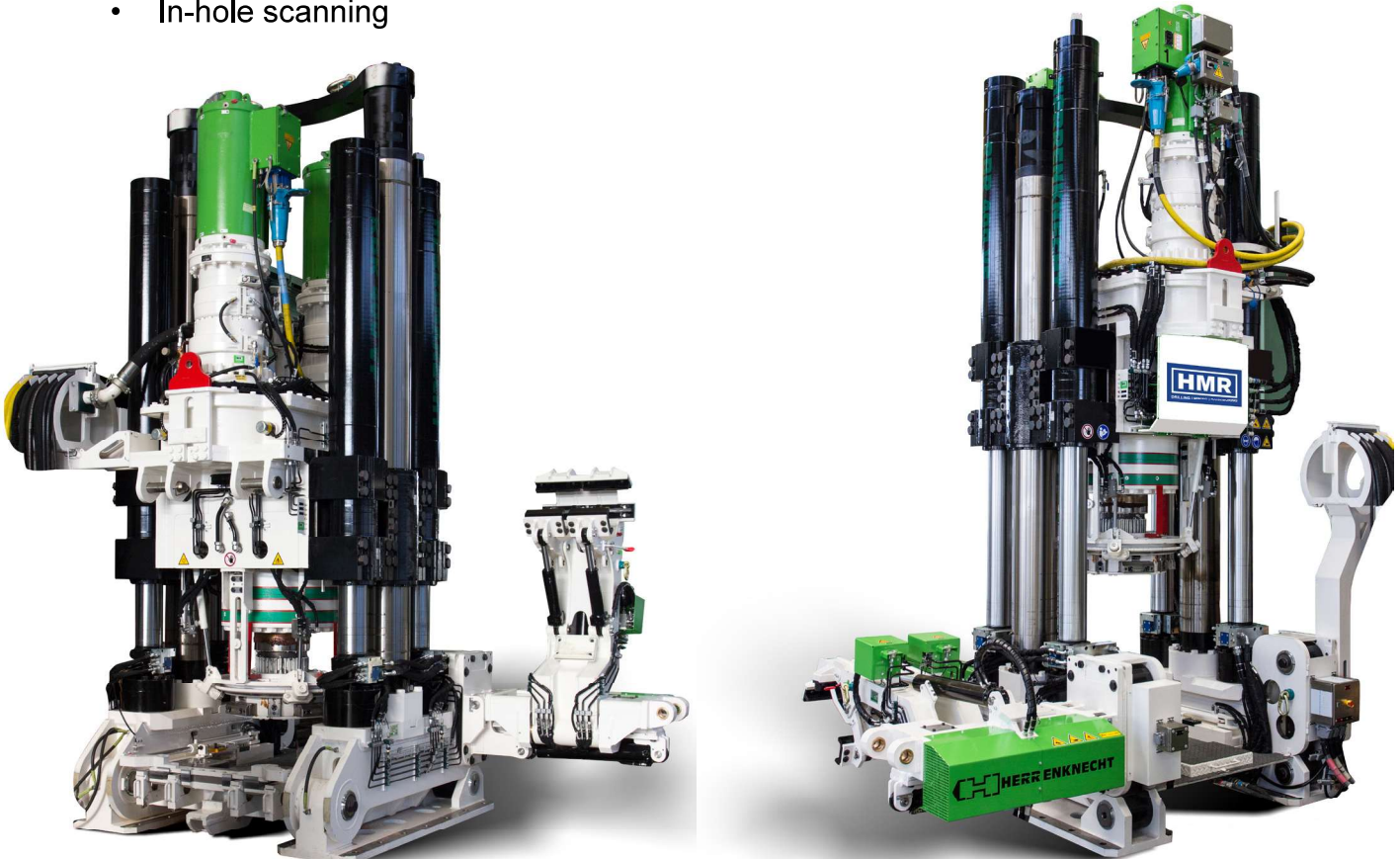
- Directional drilling
- Rotary vertical drilling system (RVDS)
- Navi drilling

## CONVENTIONAL REAMING

- Up to 900m in depth and 6.0m in diameter
- Ventilation shafts
- Ore passes
- Slot holes
- Escape ways

## SHAFT LINING

- Shaft lining to a depth of 500m and 2m to 5m in diameter
- Remote shotcreting
- In-hole scanning







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## RBR400VF

### “The Lady Donna”



HMR's Herrenknecht RBR400VF is designed to construct shafts of up to 6 meters in diameter and up to 900 metres in depth.

- ✓ Powerful, highly efficient variable frequency electric drives.
- ✓ Only requires 600kVA of installed power.
- ✓ Powered by 1kV with a transportable substation included.
- ✓ Automated wrenching and pipe loading.
- ✓ Integrated cooling system to reduce water usage.
- ✓ Remote crawler for better manoeuvrability and faster setup times.
- ✓ Electronic reporting and remote monitoring.
- ✓ Ultra-high-strength 12-7/8" drill string.

#### **Specifications**

Reaming Torque:	452 kNm
Maximum Torque:	600 kNm
Thrust Force:	9,200 kN

#### **Weight and Dimensions**

Height Retracted <sup>1</sup> :	5.73 m
Height Extended <sup>1</sup> :	7.37 m
Width:	2.71 m
Depth:	2.72 m
Weight:	41 t

<sup>1</sup> Heights specified include 400mm beams

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## SL500 Automated Shaft Liner

To add value to critical mine infrastructure projects and complement our RBR400VF, HMR has designed a fully automated, remote shotcrete shaft lining machine, with the capacity to remotely apply shotcrete for shafts up to 6.0 m in diameter down to depths of 500 metres.

HMR's Automated Shaft Liner has been optimised to improve safety, self-sufficiency, and production. With real-time thickness deposition reporting and a state-of-the-art microprocessor-controlled delivery system, it will be the most advanced shaft liner in the country.

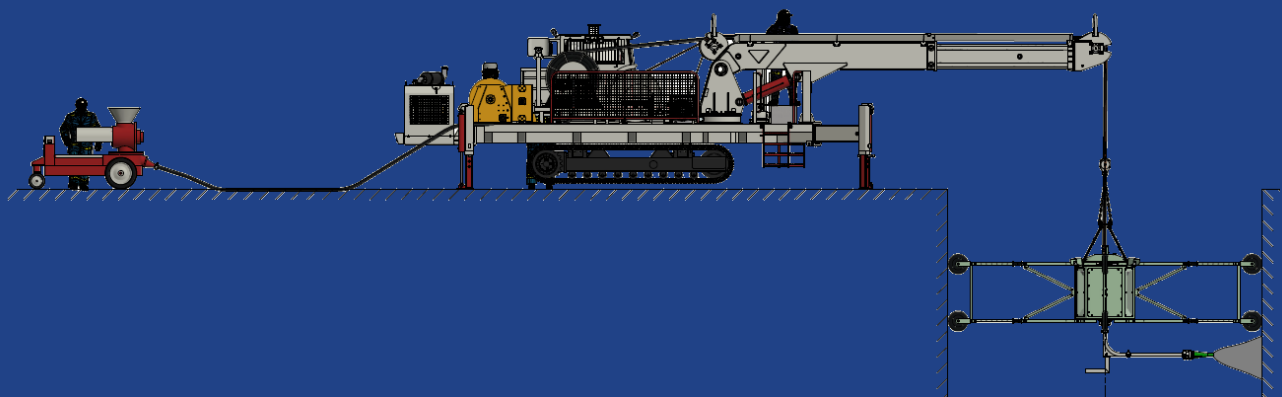
- ✓ Robotic spray module – no shaft entry required.
- ✓ Automatic operation – PLC controlled via a touch screen with manual override.
- ✓ Mobile – Self-propelled diesel crawler.
- ✓ Efficient - 1 kV plug-and-play with minimal support required to mobilise and set up.
- ✓ Smart design – Real-time thickness deposition reporting with final pre/post scans for QA/QC.
- ✓ Improved safety – Boom extends over the shaft with the front of the machine three metres away from the opening.

### Specifications

Minimum shaft diameter:	2.0 m
Maximum shaft diameter:	6.0 m
Maximum depth:	500 m
Slew Speed:	1.5 RPM
Tramming Height:	3.45 m
Tramming Speed:	4 kph

### Power requirements

Voltage	1,000 V
Power is supplied via a 150A Macey receptacle from a standard jumbo starter box.	

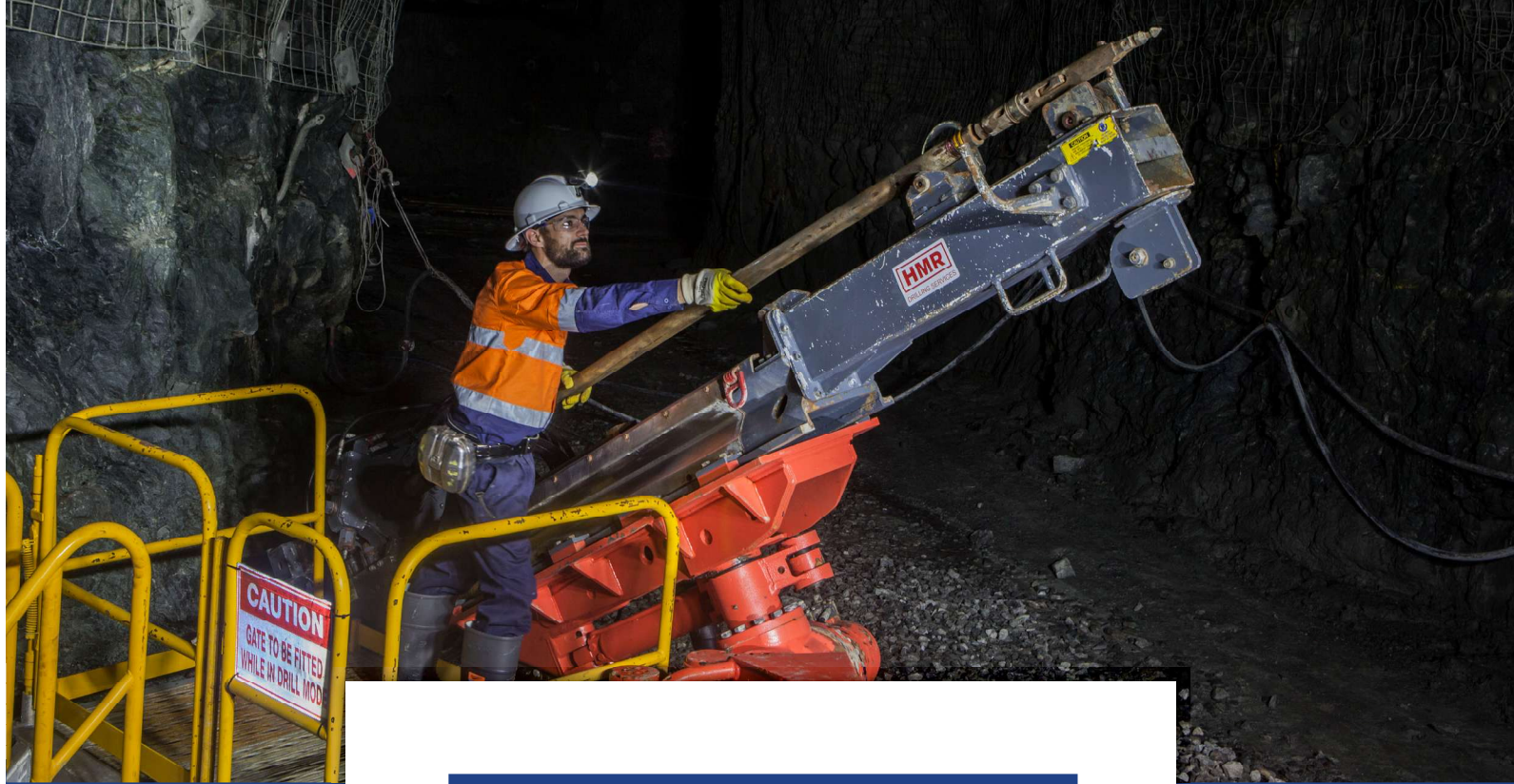


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