

Gemsa's Quarry Drill Rig

Vertical & Horizontal Drilling for Diamond Wire



MARMOROK 90E

Hole diameter: 90mm (3 1/2")

Hole depth: 40m (130ft)



*Easy to maneuver.
Quick interchangeability
Exact positioning
Easy to maintain*

Flexible & Robust

Marmorok 90E is Gemsa's surface DTH drill rig, equipped with a powerful down the hole hammer, is designed especially for marble quarries. Rig is build as a high production anchor and capable of taking on the most demanding projects and also complying with all important safety standards.

It is based on proven and tried technology with simple design, which ensures continuous and uninterrupted operation ,even in the harshest conditions.

Benefits include;

- * Rig allows greater flexibility in positioning and capable of drilling from vertical to horizontal and also inclined.
- Fuel economy with electric power.



Basic facts

Main application:

Marble quarries , also Limestone & Granite

Drilling method:

Down the hole

Hole diameter / depth:

90 mm(3 1/2") / 40m (130ft)

Powered by:

Deutz F2L2011 Air cooled two cylinders diesel engine.

Max. Power: 23kW @2800 rpm

Max. Torque: 90Nm @1700rpm

22 kW "30hp" @ 1475 rpm Electric motor

Hydraulic system:

Parker tandem open circuit gear pumps

Working pressure: 160bar

Machine control:

Manual control, ergonomic design control panel.

Tramming: Three wheel drive, negative brake release, towing purpose manual brake release

Drill Mast & Feed System:

Drilling from vertical to horizontal. Both side drilling.

Negative Brake Planetary Gearbox with Hydraulic Motor.

Feeding Stroke: 2.500mm

Fast Feeding Down Speed : 30m/min

Pull Back Force: 25kN, speed : 30m/min

Drill Head:

GEMSA DW Model Drill Head

Spindle: 2 3/8" API female

Driven by hydraulic orbital motor.

Torque: 1.020Nm @ 100rpm

Make up: 150bar

Brake out : 150bar

Air Line Lubricator:

Venturi system.

Water Pump:

Gemsa model pneumatic control water pump.



Highest reliability in flexible drilling

Easy to set up the rig with its versatile and flexi-boom structure. It is capable of drilling exceptionally good in straight, vertical as well as horizontal holes. Thanks for Gemsa's creative solution for rotary head, it saves time by both way drill and increase productivity.

Most efficient power

The powerful DEUTZ diesel engine gives smooth and vibration-free operation with low noise level, featured with high torque. Also rig equipped with 22 kW electric motor. Operator can use diesel or electric power for tramming and drilling functions according to site conditions and for fuel economy.

Fine control of drilling functions.

Rig is equipped with high quality hydraulic components to get highest circuit efficiency and productivity.

Easy to maintain and service.

Rig is designed so all service points can be easily accessed and maintained. Quick access to main hydraulics and power pack components make maintenance procedures much more simple.

Features

- Drilling good in straight, vertical as well as horizontal holes.
- Flexi-boom structure.
- Fine control of drilling functions.
- Gemsa DW drill head both way drilling.
- Highest quality hydraulics.
- Highest possible circuit efficiency.
- Robust connections.
- Great efficiency and low diesel consumption

Benefits

- Excellent overview of the drill site.
- Easily accessible service points.
- Best cold starting properties even under extreme conditions.
- Improved safety and secure drilling.
- Great flexibility with extensive range of standard features and options.
- Easy to learn and operate.
- Worldwide after-sales support

Optional equipment

Dust Collector: (Hydraulic control)

Rig Lighting (Led lights options)

Drill Rig Color (Standard: Yellow – Blue)

