

Mamba Turbodrills (ex-Cedar Turbines)

Geothermal Drilling Applications

Hard & Hot formation



Exploiting a resource stored as heat in hot fractured intrusive, volcanic or hard sedimentary rocks, needs deployment of selected drilling equipment to meet the challenges of costs optimization and harsh conditions of the operation.

Specific Challenges to be addressed



High temperature environment

Harsh for downhole equipment, the main barrier for non 100% Metallic components.



Drilling hard and abrasive rock

Fixed Blades bits (no seal or bearing) and reduced Depth Of Cut (DOC) in combination with a shearing or grinding preferred mechanism to collapse the rock.



Reducing risk of Non-Productive time

Ensure smooth operating parameters keeping the hole vertical, delivering a smooth well-path and quality borehole.



Operating in challenging environment

Selecting the most efficient converter of hydraulic energy for failing the rock with cuttings tuned into powder for an effective removal.

Mamba Turbodrills fit for Purpose

- i** High RPM delivered to fixed blades Bits ($ROP=DOC \times RPM$) - compatible with aerated drilling (dual phases drilling fluid) - flow Controlled & Dynamically Stable BHA - Light WOB applied
Smooth and steady surface signature, self drain motor (no need of dump valve).

Reliability & Performance

With blades and bearing specifically designed, Mamba Turbodrills can lead latest generation of Diamond Impregnated bits, Hybrid and new generation of PDC bits to deliver optimal performance in harshest environment.

Email us :

✉ contact@mambaturbodrills.com

Follow us on LinkedIn 

Mamba® Turbodrilling Services

visit us at www.mambaturbodrills.com