

SONIC RIG

HYDRACORE SONIC 4000

The Heli Hydracore Sonic 4000 (HHS4000) is a unique light weight (1,900 lbs/pick) helicopter portable drill rig that was created to allow for continuous sampling in the most remote of project sites. The HHS4000 is a multipurpose unit that can complete several drilling methodologies including but not limited to; sonic, coring, mud rotary and air rotary operations. Two hydraulic power packs are utilized to operate the machine when sonic drilling. A step-down saddle beneath the compact sonic head, allows a drill chuck to be mounted to complete diamond drilling techniques when required. Only one power pack is required for conventional diamond drilling, air and mud rotary techniques. The HHS4000 has comes equipped with a breakout clamp system, emergency stops, fire extinguishers, and guarding around all rotating components.

Depth Capabilities:

Sonic 152.5mm (6") Casing: 243.9 m (800')
HQ: 500 m (1,640')
NQ: 1,400 m (2,624')

Dimensions:

Width: 1.76 m (5.79')
Length: 3.86 m (12.66')
Height: 6.09 m (20')

Weights:

Feed Frame: 1,900 lbs
Engine: 1,700 lbs
Power Pack: 1,100 lbs

Rig Features:

- Engine Power: 2 @ 140 hp
- Stroke: 3.5 m (11.5')
- Pull Back Force: 24,500 lbs
- Down Force: 15,500 lbs
- Oscillatory Frequency: Variable (0-75 HZ)
- Oscillator Force: 41,000 lbs @ 75 hz
- Rotation Speed: 0-80 rpm
- Max Torque: 1,700 ft/lb
- Winch Pull Back: 4,500 lbs
- Drilling Angle: Vertical to 45 degrees
- Complete rod guard ensuring safety
- Heaviest Component - 2,000 lbs (Mast/Saddle Assembly)

