

MH-DW70

Borehole Mechanical Hammer

DESCRIPTION

The MH-DW70 is a borehole hammer for inverse VSP, crosshole seismic surveys.

The seismic signals are conveyed to the earth either through the water filling the borehole or by means of clamping wedges.

The investigation range is from 200 to 500 meters, depending on the seismic transparency of the rock or soil.

The minimum borehole diameter is 76 mm for the MH-DW70. The maximum recommended depth 1000 m.

The hammer is designed as

motor-driven accelerated weight drop, the blow rate being adjustable between 8 and 16 blows/minute.

The model is equipped with electric motors and trigger sensor with a timing accuracy of few tens of microseconds.

MAJOR BENEFITS

EXCELLENT SOURCE FOR BOREHOLE SEISMIC SURVEYS

OPERATES IN CONFINED SPACES

GOOD DATA QUALITY

APPLICATIONS

The MH-DW70 can be used in a wide range of applications, they include:

- crosshole surveys
- tomographic imaging
- location of fractured zones
- assessing the constructability of the rock and earth
- ore bodies delineation
- inverse VSP surveys



ADDITIONAL BENEFITS

ENVIRONMENTALLY FRIENDLY



SYSTEM COMPONENTS

SYSTEM MODULES

1. The **power supply & controller** transfers to the source the control signals.
2. The **borehole hammer** generates the seismic signal
3. The **borehole accessories** used for positioning and fixing (including launching tripod and wheel mount assembly)
4. A variety of **seismographs** can be used, they include Geode, StrataVisor, and others



SPECIFICATIONS

Power supply: 115 V/60 Hz - 230 V/50 Hz
Operating temperature: 5-60°C
Maximum operating depth: 1000 m
Energy: 300 J/impact

CONTROLLER
Dimensions: 300 x 120 x 60 mm
Weight: 5 kg

HAMMER
Impact sensor: geophone
Blow rate: adjustable from 8 to 16 blows/min

Clamping wedges or Pulse converter if water is used to transport the seismic wave
Length: 3,830 mm
Weight: 70 Kg

LEAD-IN CABLE:
Length: upon request up to 1000 m on a cable winch.

