

P.I. 343 ISIDINGO HANDHELD DRILL



PURPOSE

The purpose of the Isidingo Handheld Drill is to drill holes in rock efficiently and in the least time possible, thus maximising production output. The lightweight design and vibration damping system incorporated will reduce fatigue immensely.

BACKGROUND

A better and more effective way to drill holes underground, other than pneumatic drills, is offered. The Hydropower Drills use the more advanced energy source in order to drill the holes. The drills are quieter, cooler, more powerful and more cost effective than conventional air drills.

DESCRIPTION

The Isidingo Drills consist of two sections, an impactor and rotation, which are held together by tensioned tie-rods.

The drill is operated by supplying high pressure water (13 MPa to 16 MPa) with a feed hose to the drill, mounting the drill on a thrust leg, inserting a drill steel with a drill bit attached into the rotation, and actuating the start lever.

FEATURES

- Easy to install and replace
- Lightweight only 17.7 kg
- Ergonomically improved handle and decreased vibration
- 22mm Hex steel reduce handling weight and drill steel costs
- Reliable
- Fast and efficient penetration rate
- Cost effective
- Minimal water consumption (± 0.65 l/s)
- Suitable for hand-held operation
- Robust
- Simple design
- Fail safe – the drill will stop working in a harmless manner

TECHNICAL SPECIFICATIONS

Blow Energy	52 (J)
Maximum Operational Torque	40 Nm
Drive Fluid	Mine Service Water
Working pressure	13 -16 MPa
Normal supply flow rate	0.65 l/s @ 16 MPa
Drill Steel	22mm Hex, forged or rubber collar – interchangeable retainer, 159 mm shank
L x W x H	735 mm x 209, x 149 mm
Dry Mass - including retainer, pin	17.7 kg
Equivalent Noise Exposure	98.5 Neq
Rate of Penetration	0.65m/min in 180 MPa compressive strength rock @ 150 Bar and 180 kg thrust force. Drilling a 34mm hole