



HBR-20P

Scorpion Solid-State Electronic Permissible Blasting Machine
MSHA Approval No.: 16E-15

Mechanical	
Size	3"W x 2"D x 6"H (7.6cm W x 5.0cm D x 15.2cm H)
Weight	28 oz. (.79kg)
Color	Yellow
Hardware	HD Black Nylon, SS 'D' Rings
Case Features	Waterproof, Impact Resistant, Rugged Compact design, Recessed Protected Pushbuttons
Power Source	4 - "AA" Alkaline Batteries
Battery Voltage	4 x 1.5V (6V Total)
Battery Compartment	Waterproof, Easy 1 Step Cover
Electrical	
Output Voltage	350 VDC
Output Energy	6.125 Joules
Firing Capacity	20 Iron Leg Wire (16') Electric Detonators (Short Delay) in a Single Series
Shunt Timing	4.5 to 8 m/sec (Avg 6 m/sec)
Ready Indicator	High Intensity LED
Charge/Fire Cycle	5-6 seconds



Neck Strap Standard

Operation:

To Test:

Always check blasting circuit with MSHA approved test device prior to connecting to Blasting Machine. Before connecting to blasting circuit, depress 'CHARGE' switch until 'READY' light illuminates. While maintaining pressure on 'CHARGE' switch depress 'DETONATE' switch. 'READY' light should extinguish immediately.

Caution: Do NOT relax 'CHARGE' switch when depressing 'DETONATE' switch. The dual switch firing circuit assures the blaster's intent to initiate.

When 'READY' light fails to illuminate within 20 seconds , replace the 4 "AA" Cell Batteries accessible through the battery cap located on the right side of the unit.

To Fire:

Connect Blasting Machine to blasting circuit and repeat 'CHARGE' AND 'DETONATE' sequence as in 'To Test.'

NEVER use the HBR-20P as an alternate energy source on equipment for which it was not designed.

Never use a damaged or questionable machine. EIT Corporation repairs all units which it produces.

Output oscillographs are recorded for every machine. If a copy of these test traces is required please contact EIT Corporation.