

# Hammerhead Up Impact Hammer



- High impact loads
- Ease of maintenance
- Reliable operation

## DESCRIPTION

The Pragma Hammerhead Upstroke Impact Hammer delivers a controllable high frequency up impact to a downhole device.

The frequency and magnitude of the impacts delivered are controlled via the flow rate and applied force. The Up Impact Hammer can be combined with the Down Impact Hammer to make a Bi-Directional Impact Hammer. A short length and the ability to configure the Impact Hammer as required make this versatile tool suitable for many applications including shifting sliding sleeves, breaking discs, pulling plugs, scale removal, tubing swaging and broaching.

The ability to deliver high frequency impacts with low applied force and without the necessity to cycle the coiled tubing make the Hammerhead an attractive alternative to using a jar.

The Hammerhead Accelerator is also available to optimise performance of the Hammerhead especially where there is little effective length of the coiled tubing above the Hammerhead.

The Pragma Hammerhead Up Impact Hammer is manufactured from high grade materials and has an operating system that does not rely on elastomer performance,



## DEPLOYMENT AND OPERATION

- The Up Impact Hammer should be placed as close to the required point of impact as possible.
- The Pragma Hammerhead Accelerator or the Pragma Dual Acting Spring Accelerator should be positioned above the Hammer in the tool string.
- The Accelerator is highly recommended especially when operating at shallow depths where the stretch in the coiled tubing may not be sufficient to provide the maximum efficiency of transfer of energy to the impact hammer.

## FEATURES&BENEFITS

- Compact Length.
- Can be configured into a Bi-Directional Impact hammer.
- Reduces Coiled Tubing fatigue compared to jarring.
- Mechanism does not rely on elastomeric seals making it suitable for use in corrosive and high temperature wells.
- Requires a combination of pull and flow rate to activate
- Supported by matching spring accelerator.

## OPTIONAL EQUIPMENT

- Hammerhead Accelerator
- Hammerhead Up Impact Hammer
- Star Bit and Chisel Bit
- Ballistic Button Bits
- Pragma Test Beam for Jars and Impact Tools

| Part Number  | Outside Diameter | Impact Frequency Per Minute | Length | Thread Connection |
|--------------|------------------|-----------------------------|--------|-------------------|
| FHU169BB08-2 | 1.688"           | 60-600                      | 29.2"  | 1.00 AMMT         |
| FHU212BB09-1 | 2.125"           | 60-600                      | 29.5"  | 1.50 AMMT         |
| FHU288BB23-2 | 2.875"           | 60-600                      | 39.5"  | 2.38 PAC          |

We offer optional equipment, alternative sizes, materials and thread connections.

Please contact us for more information.

