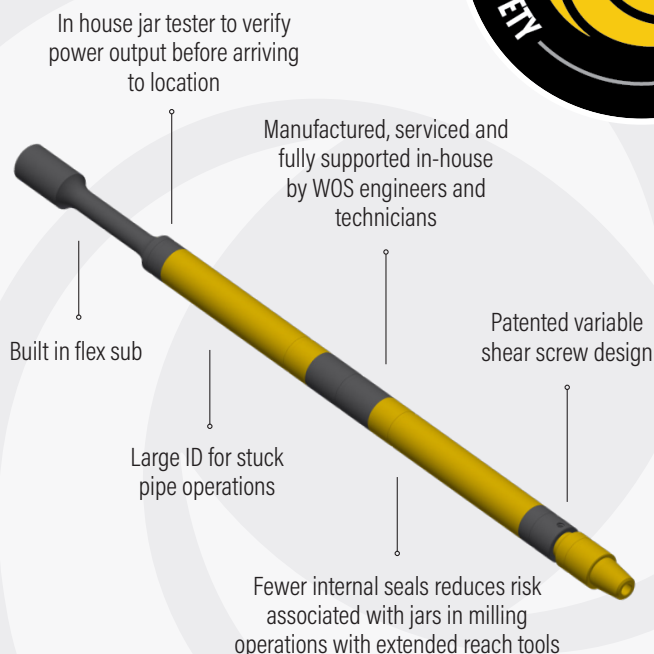




**Deliver hundreds
of hits without loss
in performance**

I.H. Jars

 Run in operations needing bidirectional,
unidirectional or bumper jars



I.H. Jars Patent # US11098549

I.H. Jars Specs

Tool Size, in	2.875	3.13	6.25	9.5
Max OD, in	2.875	3.125	6.25	9.5
Min ID, in	1	1	2.25	3.25
Shoulder to Shoulder Length, in	62.5	66.5	269.5	200.4
Stroke Length, in	10.8	12.8	24	24.25
Torsional Yield, ft-lbs	2,600	4,650	44,500	91,200
Tensile Yield, ft-lbs	134,000	154,500	1,000,000	1,860,000
Max Jarring Load, lb-f	28,000	37,000		
Top Connection	2-3/8" PAC Box	2-3/8" PAC Pin	4-1/2" IF Box	7-5/8" REG Box
Bottom Connection	2-3/8" PAC Pin		4-1/2" IF Pin	7-5/8" REG Pin

 Robust and dependable design

I.H. Jars

Differentiators

The Workover Solutions Igneous HAMMR Jars can be used for fishing, workover and frac plug milling operations on both coiled tubing and stick pipe operations. The WOS Jars are robust, dependable; provide a high jarring impact while maintaining a short overall length. They are conventionally run as bidirectional hydraulic jars but can easily be converted to be unidirectional jars, for fishing operations, or as bumper jars. The WOS Jars are unique since they can be pinned in the closed position prior to operations. In doing so this eliminates some of the internal seal failures associated with jars being ran on milling operations with extended reach tools. The result is a jar that is ready to fire at all phases of the operation.



 Proven reliable design for milling operations with hard hitting extended reach tools

Features

- Can be ran in operations needing bidirectional, unidirectional or bumper jars
- Proven reliable design for milling operations with hard hitting extended reach tools
- Stroke length and jarring ability similar to competitors with reduced overall length
- Patented variable shear screw design
- Built in flex sub

Benefits

- Locked to prevent premature activation while running in hole
- Reduced overall length without loss in performance
- Field proven to deliver hundreds of hits over multiple days without a loss in performance
- Ready to fire during all phases of the operation eliminating cycle time
- Flexibility in direction allows for jar to be utilized in any operation

Supporting Tools

- WOS Overshot
- WOS Motors
- WOS Fishing Tools
- WOS Intensifier

★ **MANUFACTURED IN U.S.A.** ★
BUILT, MAINTAINED, & TESTED IN DAMMAM KSA.



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