

HYMEC HFJ FISHING JAR & ENERGIZER



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The HFJ Fishing Jar & Energizer are a new generation of tool designed and manufactured for the severe fishing operations of today, requiring secure and durable operation and providing high impact as and when required regardless if in vertical, high angle or the horizontal section of the well.

Jarring Up

To jar up, apply overpull at the jar as required and wait for jar to fire. The more overpull applied on the jar, the greater the impact will be achieved. To repeat jarring, reset the jar by applying weight down on the jar to return the jar to its pre jarring position ready to be jarred up again as required.

Bumping Down

Using the weight above the jar to bump down from the jar being in its fully extended position. Dropping the weight down will give bump action down and can be repeated after extending the jar again. To increase possible bump, pull up to stretch the string before release to bump down. The greater the pull up before release, will increase the bump down force.

Energizer Up Operation

The energizer will automatically be applied when overpull is applied to the jar so fully concentrate on the loads applied on the jar and the energizer will adjust as required.

The energizer will, when operated with the 'HFJ' Jar, increase acceleration of hammer weight between jar and energizer and thereby increase impacts.

Jar Settings

Tool Size Nominal	3 1/8"	3 1/8"	3 3/4"	4 1/4"	4 3/4"	6 1/4"	7 3/4"
Hydraulic Delay UP 20 000lbs		1-2 min					
Hydraulic Delay UP 35 000lbs	1-2 min		1-2 min				
Hydraulic Delay UP 50 000lbs				1-2 min	1-2 min		
Hydraulic Delay UP 100 000lbs						1-2 min	1-2 min
Delay at Max overpull UP	10-30 sec	10-30 sec	10-40 sec	10-50 sec	10-50 sec	10-50 sec	10-50 sec

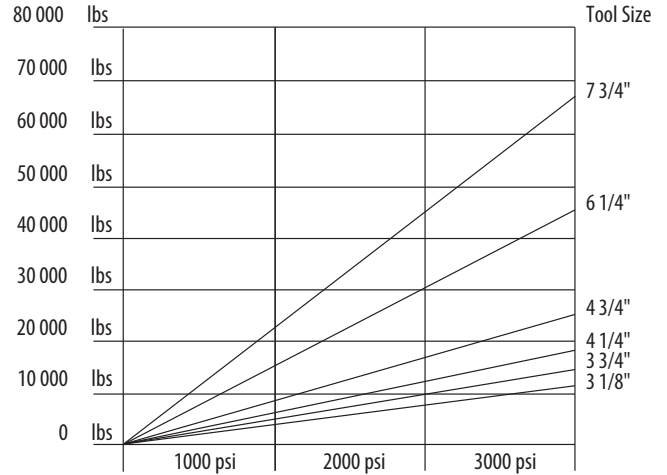
PUMP OPEN FORCE JAR AND ENERGIZER

Pump pressure will generate a force, which will try to open the tool and thereby increase impact. For calculations please refer to Pump Force table.

In horizontal wells the energizer will, due to the Pump Open Force and spring force, also assist in moving the BHA to maintain weight on bit if used while drilling.

Pump Open Force Chart

Force created by pressure drop across the bit.



HFJ Jar & Energizer notes

The HFJ Fishing Jar & Energizer are manufactured using the latest technology and materials. The tools are designed to allow torque applied to jar while firing. The durable hydraulic system provides the jar with high and consistent impacts, even in horizontal wellbore placements.

The HFJ Fishing Jar are of robust design and can be relied upon in the most severe fishing applications. With the full involute spline drive arrangement, they can also be used in drilling applications. If used for drilling, correct placement is to be ensured for problem free operation.

Specifications

HDJ Jar & Energizer series	31	31	37	42	47	62	77
Tool size OD (new)	3.14"	3.14"	3.77"	4.27"	4.77"	6.27"	7.77"
Bore ID	1.00"	1.50"	1.50"	1.94"	2.19"	2.19"	3.00"
Overpull Max. (Pre-jarring at Jar) lbs	56,000	36,000	66,000	78,000	105,000	210,000	305,000
Tensile Load (Max) lbs	296,480	200,100	331,680	450,080	621,810	1,112,480	1,647,360
Yield Torque (new) ft/lbs	5,880	5,880	12,010	14,840	20,300	52,420	98,100
P.O.A. sq. in.	4	3.1	5	6.2	8.2	15	22.4
Overall stroke (inch)	10.0	10.0	10.0	10.0	12.0	12.0	12.0
Max temperature F/C (standard)	275/132	275/132	275/132	275/132	275/132	275/132	275/132
Max temperature F/C (high)	450/232	450/232	450/232	450/232	450/232	450/232	450/232
Max Running Hrs Up to 275 deg F (standard)	350	350	350	350	350	350	350
Max Running Hrs Up to 450 deg F (high)	200	200	200	200	200	200	200
Length approx. m/ft	3.6/11.9	3.6/11.9	3.7/12.1	3.7/12.1	4.1/13.6	4.1/13.6	4.2/13.8

Notes: Other sizes can be supplied on request.

Sales enquiries:

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Downhole Product Services

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