



### JAR XLRATOR

ELEMENT'S Jar XLRATOR is designed to increase the jar's jarring force. It runs in conjunction with the fishing jar. Its primary operation is to provide acceleration to the upper tool string of the jar during the free jarring stroke. The XLRATOR is basically a compressed spring that stores strain energy. When the strain is removed, the stored energy is released, accelerating and boosting the top jarring action. The top jarring action thus creates a direct impact on the fish. In addition, the hydraulic fluid in the jar acts a cushion and helps to absorb the shock from the rebounding drill string after the jarring stroke, protecting both the drill tools and fishing tools from damage.

When the fishing tool engages with the fish, the drill tool is lifted. As the tool is lifted, when the top jar reaches it's free impact stroke, the stored energy in the jar XLRATOR is suddenly released, accelerating the drill collars and jars upward.



OD (inch)	ID (inch)	Stroke (inch)	Jarring Load (lbs)	Tensile Yield (lbs)	Torque @ Yield (ft-lb)	Connection
3-3/4	1-1/4	8.5	52,000	348,000	8,000	2-7/8" REG
4-3/4	2	11	66,000	472,100	18,100	3-1/2" IF
6-1/2	2	12	183,100	1,100,000	49,100	4-1/2" IF
7-3/4	3	13	174,300	1,650,000	55,000	6-5/8" REG
9	3-1/16	13	208,000	1,680,200	93,200	7-5/8" REG

\* Values are theoretical and in the tolerance of about  $\pm 20\%$ . Actual values may vary as per operating conditions.

Above table is for reference only. XLRATORS can be manufactured as per client requirements.

Left Hand connections available as per request.