



e-line / slickline jar

The only
cased-hole
mechanical
impact tool
offering
in-the-string
adjustability
plus dual-purpose
versatility



IMPACT SELECTOR, INC.

REDUCE THE RISK



Our next-generation mechanical jar redefines the standard for cased-hole convenience and versatility. It's not just the only e-line jar that's a slickline jar too. It's the only impact tool that's **fully adjustable on the surface, while in the tool string** — a truly revolutionary advancement in safety, time-saving convenience, and ease of operation. And when it comes to performance, Xcalibur will redefine your notions of efficiency and dependability. Because with Impact Selector's proven Weight Forward™ design, jar mass works to your advantage. It keeps the tool string as short as possible by making supplementary weight bars and acceleration tools optional rather than an absolute requirement.

How Xcalibur Operates

Like other Impact Selector tools, Xcalibur utilizes stored kinetic energy to maximize impact ratios. When line tension surpasses a preset load limit, indicating a stuck condition, the tool activates and releases that stored energy to deliver the initial impact. Usually, this impact — intensified by the multiplying effect of the tool's Weight Forward design — frees the string. If not, the operator simply decreases line tension to relatch Xcalibur instantly under its own weight. What's more, Xcalibur can be reset repeatedly for an unlimited number of activation cycles — covering minutes, hours, days, whatever it takes — until the stuck string works free.

Designed for Unmatched Wireline Versatility

Compatible with all mechanical and electrical connections, this uniquely versatile impact tool can be safely and effectively deployed in most types of operations. Run Xcalibur as a straight e-line jar using the latest fluid-to-air technology (pressure terminals and boots) and thru-wire. Add slickline crossovers for use on a typical slickline tool string. Or remove the wiring and e-line subs and install slickline subs to configure Xcalibur as a straight slickline jar. Conversions back and forth are simple and straightforward; and you'll always enjoy the inherent safety of a superior mechanical jar unaffected by temperature, pressure, and most well conditions — a jar that resets instantly, instead of in minutes, to deliver multiple impacts in less time than other jars need to cycle once.



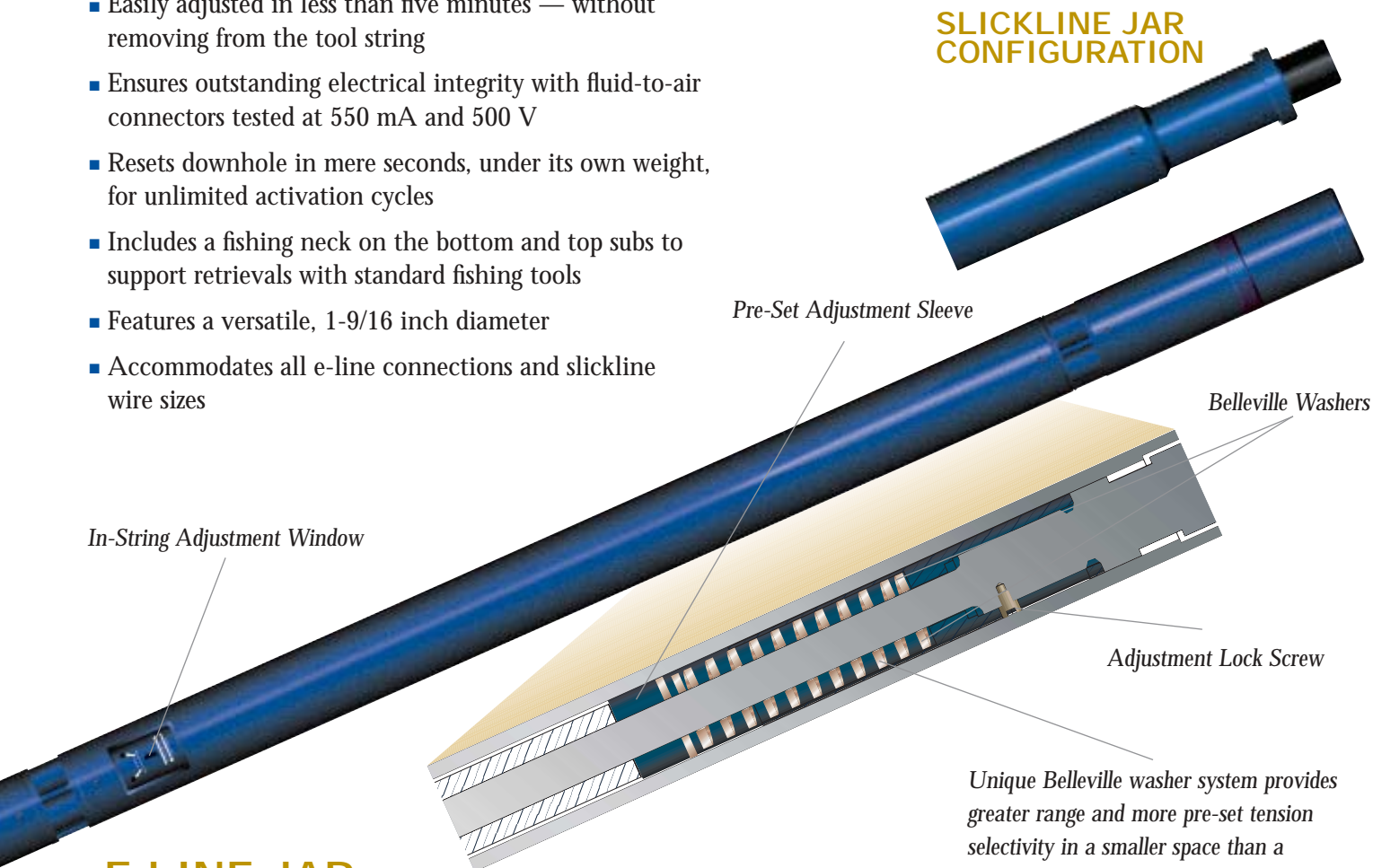
Xcalibur Benefits and Specifications

- Facilitates logging, perforating, pipe recovery, and P&A operations under adverse wellbore conditions
- Helps make wireline thru-tubing possible in lieu of rig workover
- Offers a cost-effective alternative to coiled-tubing conveyance in many situations
- Promotes reliable performance with an all-mechanical design protected from contaminants and unaffected by extreme pressures or temperatures
- Easily adjusted in less than five minutes — without removing from the tool string
- Ensures outstanding electrical integrity with fluid-to-air connectors tested at 550 mA and 500 V
- Resets downhole in mere seconds, under its own weight, for unlimited activation cycles
- Includes a fishing neck on the bottom and top subs to support retrievals with standard fishing tools
- Features a versatile, 1-9/16 inch diameter
- Accommodates all e-line connections and slickline wire sizes

	E-Line	Slickline
Diameter:	1.562 inches	1.562 inches
Length, Retracted:	71-7/8 inches	57-5/16 inches
Length, Extended:	77-9/16 inches	62-15/16 inches
Approximate Weight:	38 lbs	30 lbs
Temperature Rating:	500 degrees F	Not Applicable
Pressure Rating:	25,000 psi	Not Applicable
Field Adjustability:	300 to 1,400 lbs*	250 to 1,400 lbs*
Total Stroke:	6-3/16 inches	6-3/16 inches
Power Stroke:	5-11/16 inches	5-11/16 inches

*Higher pre-sets available by special request.

SLICKLINE JAR CONFIGURATION



Unique Belleville washer system provides greater range and more pre-set tension selectivity in a smaller space than a conventional coiled spring assembly.

Field Adjustable in the String

Adjusting Xcalibur's activation setting can be accomplished in minutes. Simply open the window for access to the adjuster mechanism, reset the tool to the desired load limit, and close the window — all without removing Xcalibur from the string.

ISI: Where Advanced Technology and Responsive Service Come Together to Reduce The Risk

When you do business with ISI, we think you'll find the difference striking. Because at Impact Selector, we place as much emphasis on providing consistently superior customer service as we do on making the best-performing, most technologically advanced impact tools on the market.

Whereas some companies offer little more than drop-off renting and leasing, we offer a full slate of services to ensure that our customers derive the utmost in safety, productivity, cost-efficiency, and added value from our products. Our services include application assistance, training, and on-site demonstration and supervision.

Our quality-assurance (QA) program includes carefully inspecting, black-light testing, and refurbishing every tool as needed to make sure it's in prime condition for its next assignment. And with ISI you'll never encounter any "hidden extras" in the bottom line.

Impact Selector, Inc.

Corporate Offices
Rockwall (Dallas), TX
972-772-5680

District Office
Houma, LA
985-868-2611

District Office
Pearland (Houston), TX
281-996-5052

www.impactselector.com

Other High-Performance Impact Tools from ISI

Blockbuster™. Extra-high impact capability for ultra-demanding cased-hole operations, including intensive fishing, with solid or braided wirelines. Provides a 6-1/2 inch stroke. Pre-set from a low of 150 pounds to a maximum of 3,200 pounds for a potential 25,000+ pounds of impact force down hole. Patent pending.

Impactor EL™. Using patented Impact Selector technology, this jar is ideal for perforators, chemical cutters, jet-cutting tools, and other equipment prone to getting hung up down hole. Conducts 300 volts at 400 mA without losing continuity. Provides a 5-inch stroke; pre-set from a low of 550 pounds to a maximum of 800 pounds.

Impactor SL™. An outstanding choice for general fishing and plug-pulling service. Featuring patented ISI technology, this jar provides a 5-inch to 7-inch stroke. Surface adjustable from 300 to 1,300 pounds.

Multi-Stage (MIT) Wireline™. Patented ISI multi-stage impact performance especially suited for use with ultra-sensitive logging tools. Compatible with all connections. Provides multiple 7-inch strokes; delivers incremental pre-sets from a low of 800 pounds to a maximum of 1,800 pounds.

Open-Hole MCT™. The world's first multi-conductor, all-mechanical open-hole jarring tool. Uses patented technology to eliminate costly "stripover" downtime and reduce the need for pipe conveyance or logging while drilling by overcoming differential sticking and increasing the string's deviation capability. Provides a stroke length of 9-3/4 inches. This proven tool has been endurance-tested at 30,000 psi and 400 degrees F.

Energizer Intensifier™. Fully mechanical, self adjusting, unaffected by temperature and pressure, the patented ISI Energizer Intensifier stores line-tension energy to enhance the impact of our wireline jars. Designed to be effective in highly deviated or "corkscrewed" wells. Installs above the impact tool and runs independently or in tandem with the weight bar.



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