

SMART Jar™ Multiconductor Jar

Jarring on command



Benefits

- ▶ Jarring on command under any line tension greatly enhances operational flexibility.
- ▶ Widens the operating envelope in challenging wells.
- ▶ Unlimited number of activation cycles.
- ▶ Compact design does not require auxiliary tools to enhance impact force or duration.

Impact Selector's SMART Jar is a unique electronically controllable wireline jar that provides a reliable and cost effective way to help prevent stuck tool strings and expensive fishing jobs during wireline logging operations.

Unlike a conventional mechanical jar, the SMART Jar's activation point can be selectively changed once the tool string is down hole. The tool allows jarring on command at any desired cable tension to provide great flexibility during operations to adapt to changing situations and also to help obtain maximum benefit from other conveyance technologies such as high strength wirelines and heavy duty units.

Using proprietary ImpactPro jar setting software to model downhole dynamics allows the operator to select specific jar settings for each well's unique conditions. Activation force limits can be optimized to suit particular job requirements and the jar adjusted accordingly. High and low activation thresholds can be quickly changed between runs to accommodate different strings.

The SMART Jar is available with electromechanical connections and multiconductor feedthroughs to suit all major wireline service provider's tools.

Features

- ▶ Electronic actuation system to determine activation force anywhere between upper and lower limits.
- ▶ Spring-assisted relatching mechanism does not rely on tool weight to relatch the jar.
- ▶ Externally accessible and easy to use adjustment of upper and lower activation thresholds.
- ▶ Full electrical pass through to the wireline tool string below.
- ▶ Reverts to fail-safe mechanical mode in the event of power or telemetry loss.
- ▶ **Low Impact Jar** - during normal conditions the jar is enabled with a low activation threshold. This allows a lower impact to be delivered immediately to free sticking tools with minimum risk.
- ▶ **Controllable Jar** - This is accomplished by temporarily disabling the actuator, pulling tension to a desired point and then re-enabling to activate the jar at that tension. Impact force can be determined in real time to suit the situation.
- ▶ **High Impact Jar** - This is the upper activation limit and default selection if power or communication to the tool is lost. This mode delivers maximum impact force to free a stuck string.

Training and Operator Certification

Impact Selector's services include remote and field application assistance, supervision and training by a certified Impact Selector technician on running, operating, and maintaining the SMART multiconductor jar anywhere in the world.



Specifications

Pressure Rating (psi)	30,000
Temperature Rating (°F)	400
Maximum Setting (lbs)	12,000
Minimum Setting (lbs)	2,500
Outside Diameter (inches)	3.688
Length (Closed / Open) (inches)	121 / 129
Power Stroke (inches)	5
Weight (lbs)	280
Max Tensile Load (lbs)	110,000
Max Pass Through Voltage (V)	1000
Max Current Draw (mA)	50

