

SMFT™ Multiconductor Jar

Multiconductor jar used in extreme applications that helps prevent stuck tool strings and expensive fishing during wireline logging



Benefits

- ▶ Instant re-latching under the jar's own weight by decreasing line tension. No critical time delay allows for an unlimited number of activation cycles per job.
- ▶ Isolation of internal components allows for extended run time with minimal preventative maintenance
- ▶ Compensates for changes in internal fluid volume due to pressure induced compression and temperature induced expansion.
- ▶ Short compact design does not need additional tools to enhance the operation.
- ▶ Redundant insulation system ensures electrical conductor reliability.

Impact Selector's SMFT is a multiconductor open hole wireline jar for use in extreme applications that helps prevent stuck tool strings and expensive fishing operations.

Ultra reliable and not affected by temperature or pressure, the SMFT provides instant and unlimited activations, with no potentially critical time delays. The jar activates as soon as wireline tension exceeds the predetermined setting and applies a powerful impulse to the stuck tool string.

The simple operation of the patented design allows the operator to reset the jar under its own weight for additional, unlimited activations.

The internal electrical and mechanical components of the SMFT jar are sealed and protected from wellbore fluids by using an oil-filled pressure and temperature compensation system. The system compensates for changes in internal fluid volume due to pressure induced compression and temperature induced expansion.

Features

- ▶ Pressure and temperature compensation system with mechanical and electrical components isolated from wellbore fluids.
- ▶ Externally accessible, easy to use adjustment system.
- ▶ Mechanical indicator to verify at surface that downhole activation occurred.
- ▶ Remote calibration available with Impact Selector's Portable Calibration Tester.
- ▶ Rated to 400°F, 25,000 psi in standard configuration, and 500°F, 30,000 psi in HP/HT configurations

Isolation of internal components from wellbore fluids allows for extended run time with minimal preventative maintenance and decreased frequency of full service maintenance; reducing operating costs.

Proprietary ImpactPro jar setting software models downhole dynamics and allows the operator to dial in the jar settings for each well's unique conditions. Impact ratios and activation forces can be optimized to suit particular job requirements and the jar adjusted accordingly.

Training & 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 SMFT multiconductor jar anywhere in the world..



Specifications

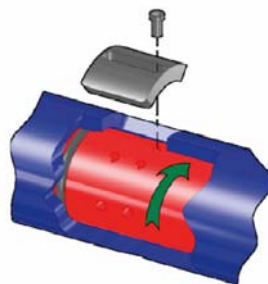
| | SMFT - Standard | SMFT - HP/HT |
|---|----------------------|----------------------|
| No. of Conductors | 19 | 19 |
| Outside Diameter (inches) | 3.375 | 3.688 |
| Thread Connection (inches) | 3.125 8 Stub Acme | 3.125 8 Stub Acme |
| Maximum Temp (°F) | 400 | 500 |
| Maximum Pressure (psi) | 25,000 | 30,000 |
| Length (Closed / Open) (inches) | 111 / 117 | 111 / 117 |
| Weight (lbs) | 210 | 210 |
| Power Stroke (inches) | 5.10 | 5.10 |
| Voltage Rating (V) | 1,000 | 1,000 |
| Minimum Setting (lbs) | 1,000 | 1,000 |
| Maximum Setting (lbs) | 10,000 | 10,000 |
| Max Tensile Pull (lbs) | 210,000 | 210,000 |

Boot Retention Mechanism



Uses proprietary, patent-pending Air-to-Fluid Boot Retention System

Adjustment System



Adjust load settings for multiple and reliable jar activations.

Fluid Isolation & Compensation System



Pressure and temperature compensation system with all mechanical components isolated from wellbore fluids.

