

# 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.

## 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, 25,000psi in standard configuration, and 500°F, 30,000psi in HP/HT configurations.

**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.

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 Impact Pro<sup>SM</sup> 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.



**IMPACT SELECTOR™**  
Intelligent Conveyance® Technologies



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## Specifications

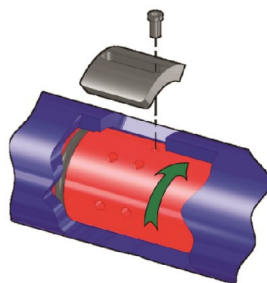
	SMFT—Standard	SMFT—HP/HT
<b>No. of Conductors</b>	19	19
<b>Outside Diameter</b> (in / mm)	3.375 / 85.73	3.688 / 93.68
<b>Thread Connection</b> (in / mm)	3.125 / 79.38 8 Stub Acme	3.125 / 79.38 8 Stub Acme
<b>Maximum Temperature</b> (°F / °C)	400 / 200	500 / 260
<b>Maximum Pressure</b> (psi / MPa)	25,000 / 172.4	30,000 / 206.8
<b>Length (Closed)</b> (in / m)	111 / 2.82	111 / 2.82
<b>Length (Open)</b> (in / m)	117 / 2.97	117 / 2.97
<b>Weight</b> (lbs / kg)	210 / 95.25	210 / 95.25
<b>Power Stroke</b> (in / mm)	5.10 / 129.5	5.10 / 129.5
<b>Voltage Rating</b> (V)	1,000	1,000
<b>Minimum Setting</b> (lbs)	1,000	1,000
<b>Maximum Setting</b> (lbs)	10,000	10,000
<b>Maximum Tensile Pull</b> (lbs)	120,000	120,000

### Boot Retention Mechanism



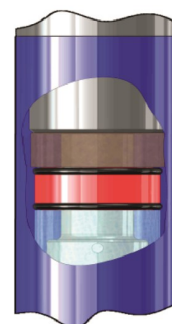
Uses proprietary, patent-pending  
Air-to-Fluid Boot Retention System

### 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.



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