EXPRO
WIRELINE INTERVENTION

Slickline Perforating

The combination of Expro's Slickline correlation system, which guarantees a depth accuracy of ±2.0 ft, and the Combined Trigger Unit (CTU) allows full scale production perforating to be performed on slickline with no compromise on safety and depth accuracy.

The Slickline Correlation system applies corrections to each perforating run to compensate for the various factors that affect slickline depth, for example, well-head pressure, surface tension, logging tension, wire length, tool length and tool weight. This step change in slickline accuracy and versatility is backed up with an extensive track record.

The CTU ensures safety is not compromised, on surface or downhole, by means of both mechanical and electronic safety features combined with an accelerometer sensor. The reduction in manpower and equipment required on location for Slickline Perforating compared to a traditional electric-line perforating operation makes it an extremely cost efficient option. It is especially suited to remote operations and small platforms.

Applications:

- Operations where a reduction in cost is desired.
- Con-current operations.
- High-pressure operations.
- Production perforating operations on small platforms or remote locations where e-line operations are not possible.
- Any explosive operation where accurate depth control is required.

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Features:	Benefits:
Existing slickline crew can perform job with the addition of an Expro specialist. No requirement for additional e-line crews	Reduction in personnel
No e-line equipment required as the existing slickline equipment can convey the perforating guns	Reduction in equipment
Depth accuracy that is comparable with traditional e-line systems fully independent of well geometry, depth etc.	Accurate repeatable depth control of ±2.0 ft
System can be fitted to existing slickline winch on location without any modifications to winch	Can be run on any slickline winch
Radio silence is not required	Radio safe
A slickline pressure control system fundamentally safer than the equivalent e-line grease control system. For HP/HT operations this may be a major advantage	Safer pressure control
Any operation where there is a reduction in personnel and equipment combined with safer pressure control and the use of a radio safe system will result in an overall improvement in the safety of that operation	Increased operational safety
Any type of explosive service that is currently performed using electric-line can be run on the Expro Slickline Perforating System	Full range of explosives available

Technical Specifications:

Maximum Tool Ratings

	CTU	HPHT CTU
Pressure	9,000 psi (62MPa)	20,000 psi (138MPa)
Temperature	150°C (302°F)	200°C (392°F)
Diameter	$1\frac{11}{16}$" (43mm) or $2\frac{1}{8}$" (54mm)	$2\frac{1}{8}$" (54mm)
Length (excluding explosives attachments)	47" (1.19m)	67.4" (1.71m)
Mechanical Pressure and Temperature Safety Switches	Selectable switch values.	Selectable temperature switch values, pressure fixed.
Top Connection	$\frac{15}{16}$" (23.8mm) Sucker Rod or Quick Lock System	$\frac{15}{16}$" (23.8mm) Sucker Rod