

Creative
Well Intervention Solutions

a vision

Oriented Perforating Tool
an advanced perforating solution



Creative Well Intervention Solutions

Wireline Engineering serves its upstream oil & gas customers by developing innovative wireline and flow control products that add tangible value to their well intervention activities. We are committed to the success of all our Customers, by finding smarter, easier and better ways to meet their operational and business goals. Wireline Engineering combines operational experience, creative design, state of the art manufacturing and product testing facilities to generate smart products and fast-track solutions, worldwide.

Oriented Perforating Tool an advanced perforating solution

In certain circumstances, downhole conditions make it beneficial to perforate only a specific part of the casing circumference, particularly in more deviated wells. This may arise as a result of various factors such as fracture orientation or sand production. Whatever the reason, perforating in a pre-determined direction requires the perforating guns to be reliably oriented relative to a reference toolface such as the low side of the wellbore. Such orientation can be difficult to achieve due to the friction imposed by gun weight lying on the casing surface.

To meet this challenge and make it possible to perforate reliably at any planned orientation, Wireline Engineering has developed the Oriented Perforating Tool that is adaptable for use with most types and sizes of perforating guns.

The Oriented Perforating Tool is intended to be run with Roller Bogie tools installed throughout the gun assembly to lift it on to high-efficiency rollers and eliminate contact friction with the casing. The integral swivels in the Roller Bogie tools allow the guns to be rotated freely.

The tool itself is run immediately below the perforating guns and features a variable number of modular weight-biased units, as required to rotate the gun assembly, each running on large rollers that are always aligned to the low side of the well. The torque produced by the weight-biased units is transferred to the perforating guns, turning them to the desired orientation.

Alignment of individual weight-bias units and these to the perforating guns is achieved by a proprietary indexing system that allows alignment to be easily adjusted in increments of six degrees.

In this way, perforating guns can be reliably orientated to fire in any direction relative to the low side toolface generated by the tool.

Large
Low-side
Rollers

Indexing
Orientation
System

Perforating
Gun
Connection

Weight-Biased
Module

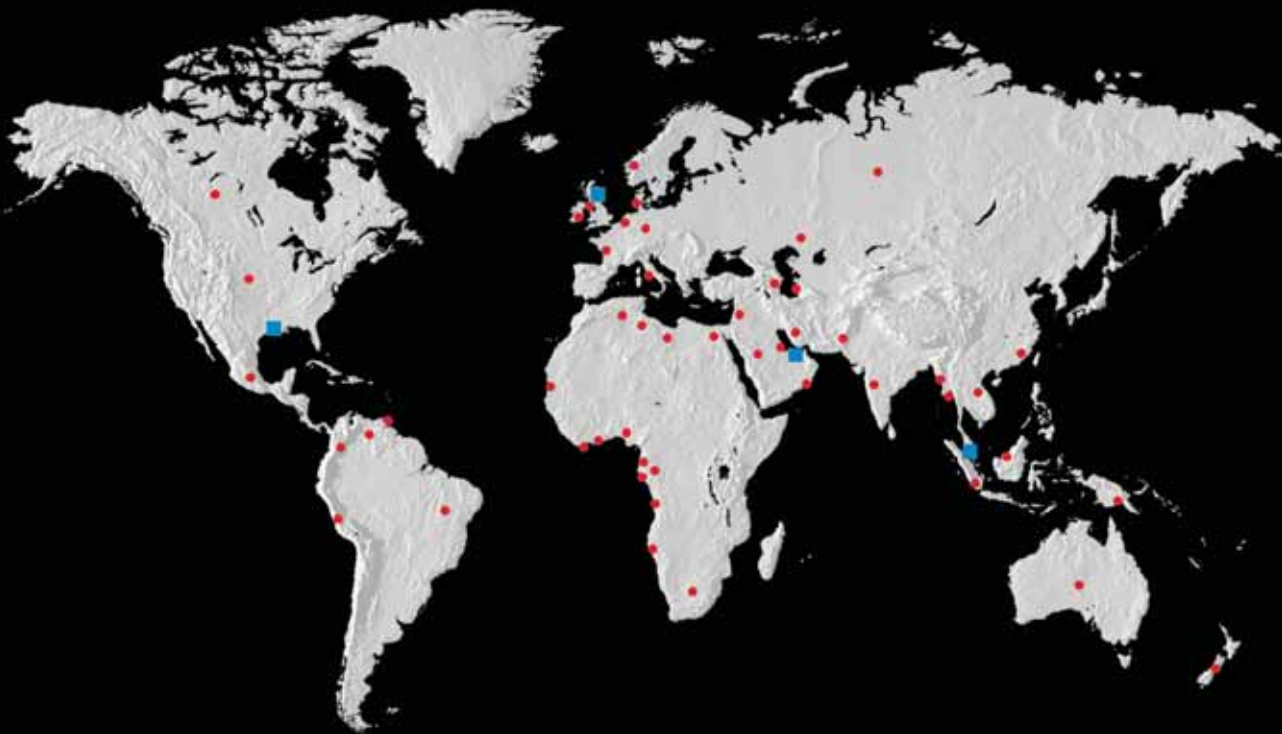
No compromise in the type or size of perforating charge is required when you choose the Oriented Perforating Tool.

By eliminating contact friction, the Oriented Perforating Tool, in conjunction with Wireline Engineering's patented Roller Bogie conveyance tools, also allows gun systems to be deployed deeper and at higher deviations than would be possible without such assistance. They also make it possible to deploy longer perforating gun assemblies without increasing frictional drag.

Indexing
Orientation
System

Weight-Biased
Module

wireline 
engineering



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Roller Bogie® is protected by granted and pending patents worldwide.

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