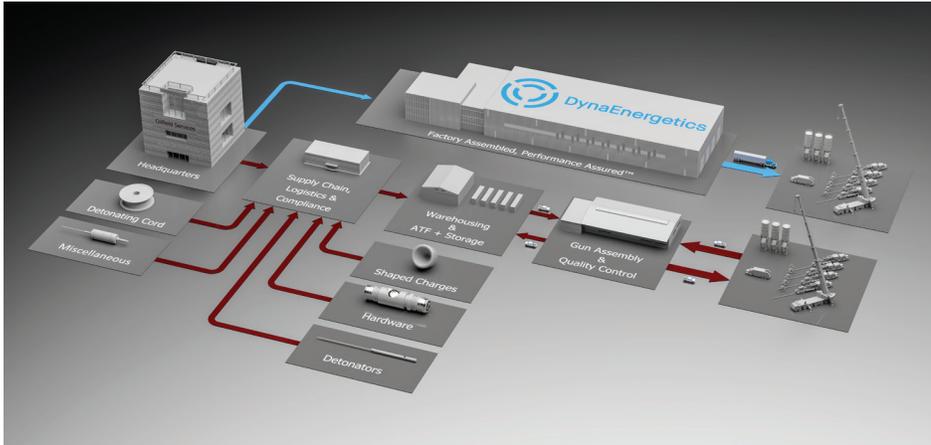


DynaStage™ Perforating Gun System

Simplify Your Supply Chain and Support Operations

Fully Factory-Assembled, Performance Assured™



As a wireline operator, you want to minimize operational risk and deliver value. Various moving parts—from sourcing equipment and managing people, to scheduling trucks, ramping up in remote locations and maintaining downhole equipment—must be coordinated efficiently. Implementing a self-built and self-managed perforating gun supply chain can be a complex and costly endeavor that can pull focus away from maximizing performance in the field.

These logistical headaches can be reduced, if not eliminated, by using DynaEnergetics' DynaStage™ perforating system—the industry's first and only fully factory-assembled, performance assured™ perforating system.

CONSOLIDATE SUPPLIERS WITH A SINGLE SOURCING PATH

The DynaStage perforating system delivers peace of mind to supply chain professionals by providing a single-source solution. You no longer need to manage relationships with multiple suppliers or schedule just-in-time deliveries or transportation for time-sensitive operations.

Reduce working capital requirements by removing overstocked inventory or out-of-stock components. Mitigate safety risks by eliminating the need for an explosive storage facility, associated ATF licenses and gun assembly personnel.

INCREASE SYSTEM RELIABILITY

Each DynaStage system component is designed to meet customer specifications for phasing, shot density and charge type. The system—from the gun carrier to the detonator to the shaped charges and everything in between—is manufactured and quality controlled in-house.

CONSOLIDATES YOUR SUPPLY CHAIN

Provides a simple, single-sourcing path for supply chain professionals that reduces dependence on multiple suppliers and added infrastructure.

MAXIMIZES PERFORMANCE

The truly modular design allows each component to be fully tested, along with the entire carrier system, before running in the hole.

IMPROVES RELIABILITY

Each DynaStage component and system is factory assembled and rigorously inspected, using stringent quality standards before being delivered directly to the wellsite.

REDUCES SAFETY RISK

The DynaStage system's simple plug-and-go detonator system greatly reduces the chance of an unintentional detonation, lowering HSE risks.

EXTENDS YOUR OPERATIONS AREA

The DynaStage system can be delivered directly to the wellsite, eliminating the need for gun assembly personnel and local infrastructure.

Assembled and tested by certified technicians at DynaEnergetics' ISO 9001-compliant facilities, each DynaStage system is factory assembled, rigorously inspected and function-tested before it is delivered to the wellsite. The result is a tightly controlled process that produces a superior perforating gun, with unmatched performance, component compatibility and system reliability.

OPTIMIZE WELLSITE PERFORMANCE & EFFICIENCY

Since DynaStage guns are factory assembled, there is little work to be done on location. Just insert our simple plug-and-go detonator, test the system and run downhole. Arming a system in the field is as easy as installing a battery in a flashlight.

Our truly modular design allows each component, as well as the entire detonation system, to be tested on surface, ensuring the utmost in optimal downhole performance. The average time to assemble and test each cluster is one minute or less.

End-of-job cleanup and disassembly is easy because our systems are fully disposable. Once the perforating job is complete, spent guns are easily emptied, leaving a clear barrel for recycling. This reduces the cost and time spent returning reusable hardware, such as subs, to your facility for service and maintenance.

ELEVATE WELLSITE SAFETY

The DynaStage system's simple plug-and-go integrated switch detonator greatly reduces the chance of an unintentional detonation. With no wires, it is the industry's first and only detonator system with an intrinsically safe design. It exceeds API RP 67 requirements, as verified by independent third-party testing.

Our addressable and RF-safe system is designed for ultimate immunity to high voltage and current levels, only initiating upon your demand. Further reducing HSE risks, our detonators cannot be energized by AC/DC electrical power, by any type of battery, induced power or static electricity, or by accidental Megger test of the wireline cable.

ENABLE REMOTE PLUG-AND-PERF OPERATIONS

Do you have opportunities miles from your home base? With the DynaStage system, you can confidently service these long-distance perforating jobs. Because the system is delivered directly to the wellsite, there is no need for gun assembly personnel, local infrastructure and extra logistical support.



Fully factory-assembled DynaStage guns simplify your supply chain, improve performance and reliability, and minimize wellsite rigup time.

With our intrinsically safe detonator system, you are not stuck waiting on night driving explosive permits or handicapped by local restrictions that limit operations. Using the DynaStage perforating system can extend your geographic circle of operations, which drives better equipment and crew utilization, and more profitability.

The **DynaStage** system marks a whole new era in perforating solutions. It simplifies your supply chain, is easier to test, safer to use and more efficient to operate. Contact your local DynaEnergetics sales representative to learn more about improving profitability and ROI on your next perforating job. For more information, go to www.dynastage.com.