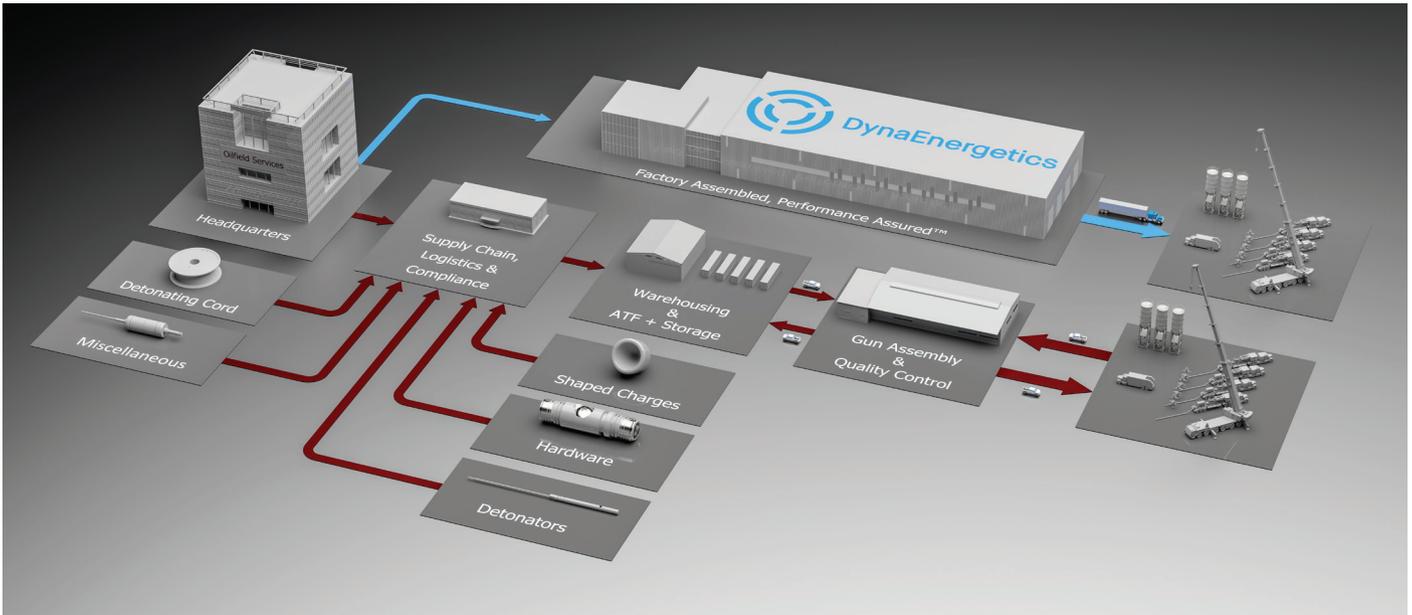




Reducing Supply Chain Touchpoints

IMPROVING PERFORATING SYSTEM LOGISTICS, EFFICIENCY AND SAFETY



As a significant consumer of perforating systems and supplies, wireline companies are motivated to deliver a value-priced, high-performing service to their customers, minimizing operational risk and maximizing safety, efficiency, and profitability. It takes advanced equipment, processes, logistics, and a well-trained crew to deliver repeatable results in a safe, efficient manner.

While wireline providers certainly excel at wellsite operations, implementing a self-built, self-managed supply chain for perforating guns can be costly and complex.

To build a perforating gun, critical gun components (carriers, subs, switches, wiring, bulkheads, O-rings, and other accessories) are needed. They also include all ballistic elements, such as shaped charges, detonators, and detonating cords, which require dedicated, secured explosive storage facilities.

The location of these facilities, as well as the number of explosives that can be stored onsite, might be restricted and require close monitoring. A dedicated gun-loading area manned by specially licensed personnel is also required for loading guns and handling explosives.

Managing and maintaining a smooth manufacturing operation can pull focus away from field performance and consume resources that could be better allocated to workforce training, improving safety, or maintaining field equipment.

To simplify the moving parts—from just-in-time equipment sourcing and managing personnel to maintaining a high-quality manufacturing and testing facility—DynaEnergetics has created the industry's first and only fully factory-assembled, performance-assured™ perforating system.

FACTORY-ASSEMBLED, PERFORMANCE-ASSURED

Manufactured at DynaEnergetics' state-of-the-art facilities, the DynaStage™ perforating system is built by certified technicians to rigid specifications, then fully assembled and tested. Each gun is subjected to a 100% quality control inspection and must pass a seven-step function test. Each component has 100% traceability back to its raw materials or original source.

The system delivers peace of mind to supply chain professionals by providing a reliable, single-source solution. No longer do wireline operators need to worry about managing relationships with multiple suppliers or schedule just-in-time deliveries and transportation to and from time-sensitive operations.

DynaStage perforating guns can be shipped to the wireline provider's location or directly to the wellsite, in full compliance with guidelines and regulations directed by API and PHMSA. This reduces exposure to wireline operators by removing the liability and risk associated with transporting explosive materials. Using dedicated third-party shippers that have been meticulously selected and thoroughly vetted, DynaEnergetics strives for 100% on-time delivery with 100% order accuracy.

SIMPLIFYING WELLSITE OPERATIONS; IMPROVING WIRELINE PERFORMANCE

At the wellsite, the DynaStage system improves the efficiency of your surface and downhole operations by reducing onsite assembly and testing requirements, greatly diminishing the risk of mishaps, misruns, and misfires. The system's modular design allows each component to be fully tested before running downhole, further improving plug-and-perf performance. Aside from inserting the wireless, intrinsically safe, plug-and-go detonator into the gun at the wellsite, no additional assembly is required. Its unmatched safety features lower your operational risk while simple operating procedures reduce training needs.

Using the DynaStage system can be a financial win for wireline operators by eliminating the steps and processes required to have an efficient supply chain and supply a reliable, high-performing perforating gun. The DynaStage perforating system reduces the need for added infrastructure, reduces working capital requirements, and gives wireline operators access to the most reliable perforating gun available today.