Running a successful wells site perforating job can be a highly sophisticated operation. It takes advanced equipment and a well-trained crew to deliver repeatable results in a safe, efficient manner. Longer laterals, and the desire for more guns and shots per stage, are driving more unique completion programs to maximize well production.

The DynaEnergetics DynaStage™ perforating system improves the efficiency of your surface and downhole operations by reducing on-site assembly and testing requirements, and greatly diminishing the risk of mishaps, misruns and misfires. Its unmatched safety features lower your operational risk, while simple operating procedures reduce training needs.

**SAVE TIME AND MONEY WITH DECREASED INVISIBLE LOST TIME**

DynaStage systems are assembled and tested by certified technicians at DynaEnergetics’ ISO 9001-compliant facilities and delivered directly to the field. Factory-assembled means just that. Aside from inserting our wireless plug-and-go, intrinsically safe detonator into the gun at the wellsite, no additional assembly is required.

After inserting the detonator at surface, our truly modular design allows each component, as well as the entire detonation system, to be tested to ensure optimal reliability. Since assembly and testing averages one minute per cluster, invisible lost time is drastically reduced on surface, and more fracturing stages can be completed each day.

Using a DynaStage system on-site can also reduce training needs and accelerate the learning curve for less-experienced field personnel. With its simplified field assembly process and ease-of-function testing, the DynaStage system helps each crew member perform at their highest capacity.
End-of-job cleanup and disassembly is just as easy—our systems are fully disposable. Once the perforating job is done, spent guns are emptied, leaving a clear barrel for recycling, which minimizes the cost and time spent returning reusable hardware, such as subs, to your facility for service and maintenance.

**ELIMINATE FAULTY CONNECTIONS**

DynaEnergetics' proprietary TopFire™ connection technology takes the place of time-consuming, failure-prone detonator connection wires. This one-piece integrated technology eliminates the need for a separate electronic switch and detonator joined by wires.

DynaEnergetics’ digital electronic initiator technology removes the need for resistorized detonators, which can be the weakest link in other plug-and-perf guns. Arming a system in the field is as easy as installing a battery in a flashlight. Since the risk of human error from pinched or poorly crimped wires is eliminated with this seamless installation, there is a reduced chance of misfire, a drastically lower rate of gun failures downhole, and the opportunity to optimize downhole performance.

**IMPROVE PLUG-AND-PERF PERFORMANCE**

Achieving greater efficiency in perforating systems can help lower overall completion operating costs, particularly in long, horizontal wellbores in unconventional plays. The DynaStage electronic system design, a simplified mechanical field assembly process, and fewer failure points help reduce the number of misruns, increasing efficiency and minimizing costs.

The DynaStage system is the only fully factory-assembled perforating system with a downhole performance rate in excess of 99.9%. By drastically minimizing nonproductive time from misfires, more stages can be completed per day, and initial production realized faster.

**ELEVATE WELLSITE SAFETY**

The DynaStage system’s intrinsically safe design enables parallel wellsite operations without depth restrictions or radio silence. Normal wellsite operations can continue while the gun string is lowered into and raised from the well. Surface explosive handling is minimized, and arming can be conducted at any time, without interrupting other wellsite activities. This reduces surface downtime and greatly limits safety risks to the environment or to personnel handling the system.

The DynaStage system’s simple plug-and-go detonator system enables API RP 67 compliant surface testing and greatly reduces the chance of an unintended detonation. It is the industry’s first and only perforating gun with an intrinsically safe design. Our detonators cannot be energized by AC or DC electrical power, battery, induced static electricity, or an accidental Megger test of the wireline cable.

The **DynaStage** system marks a whole new era in perforating solutions. It improves your surface and downhole operation, is easier to test, safer to use and more efficient to operate. Contact your local DynaEnergetics sales representative to learn more about optimizing the completion design and performance on your next perforating job. For more information, visit www.dynastage.com.