

Enidine on “Target” by Reducing Recoil

Enidine Energy Absorption Application

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Product Overview

A machine gun manufacturer headquartered in South Carolina (SIC 3489) needed to upgrade one of its existing gun systems by reducing the recoil forces that were impacting the gunner's shoulder. This product improvement needed to maintain firepower without sacrificing mobility.

To absorb recoil forces, the original weapons system utilized two shock absorbers that were heavy, costly and marginally acceptable. Having heard of ITT Enidine Inc. through one of our distributors, the manufacturer approached us for assistance.

Product Solution

The customer required a lightweight, cost-effective hydraulic buffer system to absorb recoil energy and improve overall weapon performance. To meet these requirements, ITT Enidine Inc. designed and developed a custom engineered recoil buffer, within the specified size and weight envelope. The resultant product was three pounds lighter than the original energy system. It also absorbed more energy, providing reduced recoil forces at a more economical price.

Application Opportunity

Hydraulic buffer systems, such as this Enidine recoil buffer, are an effective means of reducing forces on weapons systems and operators caused by recoil forces. This specially engineered solution surpassed customer expectations and saved them hundreds of dollars in system manufacturing costs. Any gun system manufacturer seeking a cost-effective, custom engineered recoil device could benefit from this application.

