

CARTRIDGE ACTUATED DEVICES / PROPELLANT ACTUATED DEVICES (CAD/PAD) - PTI'S NEWEST PRODUCT LINE

In military, aerospace, and safety engineering, CAD/PAD refers to Cartridge Actuated Devices and Propellant Actuated Devices. CADs are small explosive devices that actuate explosive systems, eject stores from launched devices, or initiate escape devices for aircraft crew. PADs use a propellant to release or direct work through a propellant charge. They include catapults, rocket motors, weapon release systems, fire suppression systems, aircraft ejection systems, and more. CADs and PADs utilize energetic material paired with an electronic or mechanical actuating component. These devices have a set shelf life and rigorous handling requirements. CAD/PAD systems are critical life-support and emergency components, used extensively in aircraft ejection systems, emergency fire extinguishers, weapon/store releases, missile controls and aircraft escape slides. Simplicity of operation, high reliability and precise performance are paramount for this type of product. Simply put, these devices must operate the first time, every time, without failure.

In 2022, to add more technology and depth to our missile product line, PTI Technologies acquired Network Electronics Company (NEco), a CAD/PAD company located in Chatsworth, California, and in 2025 fully integrated the business into the PTI facility in Oxnard, California. As part of this integration, PTI invested significantly in facilities and infrastructure to support the CAD/PAD business over the long term, including testing and developing automation to increase production capacity. The CAD/PAD product line has a sixty (60) year heritage of strong technical capability, high-quality products and a strong reputation for performance with customers. Today, PTI's CAD/PAD product line consists of seven major product families:

- Igniters & Initiators
- Gas Generators & Pressure Cartridges
- Piston Actuators & Retractors
- Cord, Cable & Tube Cutters
- Thermal Relays & Temperature Sensitive Fuses
- Bellows Actuators
- Switches - SPST Mini Switches, 2,4,6,& 8 Poles Squib Switches

Recent geopolitical events of the last few years have created a strong demand to replenish or build missile and munitions stocks globally. To add even more demand, the recent significant increase in the FY27 US Government budget request over FY26 for production, and the U.S. focus on strengthening the industrial base for munitions and energetics, are creating growth opportunities for the PTI CAD/PAD product line. With the energetics supply chain challenged to meet this increased demand, PTI's continuing investments in building capacity and capability are timely to meet customer needs. Backed by recent capital investments in new facilities, PTI is also expanding our engineering and production teams to support this heightened market demand.

PTI's extensive families of NEI® initiators continue to support our existing customers, while



finding new applications and customers globally for thermal batteries, ejection seat sequencing controls, rocket motor ignition and other applications. PTI is also seeing increased demand for line cutters and cord cutters used in applications as diverse as ejection seats for military aircraft, aircraft escape slides for commercial aircraft and other separation-systems applications. In the missile area, we continue to produce gas generators and boost pellet assemblies for the FIM-92 Stinger missile, initiators for ballistic and hypersonic missiles and actuators for various munitions programs. We are continuing to develop new gas generators, pressure cartridges, pyro-flare igniters and actuation for new missiles, munitions, military aircraft and collaborative combat aircraft applications. We currently have a number of technology development projects underway and as these programs complete development and become qualified we expect to see growing production needs in the future. Our non-energetic Thermal Relays and Temperature Sensitive Fuses continue to find global demand for new programs. In the CAD/PAD sector, we continue to innovate through the development and testing of new products to meet customer needs, as well as looking for ways to reduce lead time and costs in production, to deliver faster to meet customer needs. For PTI Technologies, our CAD/PAD product line is an important part of our future and an area where we continue to invest to meet the needs of the market and customers.

Come meet our team at the ESCO Aerospace booth in Hall 3, #3331, to learn more about PTI Technologies and how we can apply our CAD/PAD technology and capabilities to support your current and future military and commercial programs.