



# KENNON™

*Protection is in Our DNA*



## **Kennon's Core Competencies & Advantages**

- **Composites, materials, textiles, & chemical engineering**
- **On site design and production of safe protective covering & sheltering solutions to solve urgent problems quickly**
- **Twenty five years of success in design for manufacturing, and marketing innovative products**
- **Sewing, fabric welding, CNC cutting, routing, & printing onto fabric**
- **Lightweight ballistic & blast protection Thermal and acoustic insulation solutions**
- **Active & effective in SBIR & Manufacturing.**

### **Kennon is a Small Innovative Business that Responds Rapidly to Emergencies**

Sikorsky needed to move this aircraft cross country on the back of a truck. It needed to be protected from road hazards such as flying gravel. The aircraft would not be ready in time for workers to wrap it in protective plastic, which would take two days.

Kennon designed and built on-site a reusable padded cover. The cover was installed in less than an hour, and the aircraft was delivered in perfect condition!



## **Testament to our Capabilities...**

*Mark*

*I would like to recognize your company for the fantastic job you have done with our SBIR project. Throughout this entire process, Kennon and its partners have been exceptional, exceeding our expectations as well as your competition on this project. Your professionalism, timeliness, innovation and thorough research has set you above your peers, and has secured your continuing support in our next phase of this project. Additionally, I would also like to comment on your foresight to look beyond what was being asked for, and to look to solve the complete problem being experienced on the aircraft. Your technical recommendations, as well as product improvement ideas will go a long way in protecting our Marines and Airmen as they go into harm's way. Thank you again and I look forward to working with you in the future.*

*Thomas A. Spidel V-22 WSI*



## **Kennon Is Protecting Billions of Dollars of our Nation's Assets that Protect Us All**

After 9/11, F-16s were placed on high alert, on the ramp, outside their hangars. There would be no time to de-ice. Kennon was called on to design and build wing and tail covers to keep the flying surfaces free from ice, snow, and frost.



## **Today, Kennon's Challenges Are Greater - Protecting the Warfighter**

- **Kennon's R&D efforts are supported by SBIR/STTR programs through NAVAIR, NAVSEA and the Office of Naval Research.**
- **Through Kennon's research results, we also secured a Cooperative Agreement with Army Research Lab at Aberdeen to develop lightweight ballistic protection for aircraft.**

Kennon has developed a repositionable composite clamp to replace the bonded click-stud. The clamp secures insulation, wiring, and lightweight ballistic protection panels. Design is very versatile, and does not damage aircraft.

Thermo-acoustic insulation for military aircraft. System will provide a safer, quieter and more comfortable cabin environment.

Lightweight, onboard, ballistic protection system for aircraft. Goal is to provide NIJ level III protection at a weight of 2 lb/sq ft., with variants for greater/lesser threat levels



## **Teaming and Kennon**

Kennon is teaming with a commercial boat manufacturer to advance the state of the art in naval patrol boat construction. Kennon will employ its expertise in materials science and engineering, as well as those at the University of Wyoming, & Auburn to help develop lighter, stronger, more versatile boats, increasing mission range and effectiveness, and providing greater operational flexibility and efficiency. (NAVSEA SBIR).

Kennon is currently working to develop lightweight roadside blast protection for ground craft, to protect troops against damage and injury from IEDs, etc. (ONR STTR).

Throughout its history, Kennon has teamed with customers, companies, universities, and military units to provide better solutions, using better materials and manufacturing techniques, to create better value for our customers. In these fast changing times it is important to work effectively with customers, suppliers and experts, to develop and produce superior products, faster. Thus, providing Kennon with competitive advantages.

Examples of our current and recent working partners include:

*Sikorsky Aircraft Co.  
Herculite  
Tinker AFB  
University of Wyoming  
TexTech  
PAX River NAS*

*Dyess AFB  
TechniFab  
American Eurocopter  
Boeing  
CoorsTek  
Fort Irwin/Daggett*

*Auburn University  
EdgeWater Power Boats  
NASA-Dryden SFC  
Army Research Lab  
Hexcel  
Cherry Point MCAS*



## Protecting High Value Assets is in Kennon's DNA

Kennon Products delivers reliable, innovative solutions for protecting high value assets. Founded in 1984, Kennon has become a product leader in the aviation market, developing custom and first-run designs, as well as high volume production.

Besides aircraft, Kennon products protect water and land craft, scientific and mechanical equipment, armaments and support equipment that are deployed in harsh environments, and one-of-a-kind, odd shaped, and odd sized objects.

Kennon uses its expertise in material science and composites engineering, as well as custom design capabilities, to manufacture and deliver highest performance, value, and service.



## Kennon Sun Shields Protecting Cockpits from the Sun and Heat Since 1984



In 1984, Kennon introduced its flagship product the Kennon Sun Shield, to protect the avionics and interiors of aircraft from the damaging effects of sun and heat. Kennon's Sun Shields became the aviation world's best seller.

During Desert Storm, our nation's aircraft needed protection. This led to a DOD program to design, test and approve Kennon for military aircraft.

**Kennon protects high value assets such as NASA's Space Shuttle Carrier engines**



Strong wind causes aircraft to fly, break tie downs and crash. Kennon Spoiler Wing Covers disrupt the airflow over the wing and prevent the aircraft from developing lift.

*"The wind was blowing 40+ mph for days, with periods of 50-60 mph-but my plane will fly below 40 mph! (We were blown off our feet at times.) We buried the skis in snow to help hold the plane down, but this wouldn't have stopped the plane from blowing away in the strong winds. I spent a few sleepless nights sitting in the plane at the controls, hoping I could save the plane by flying it into the ground should a gust try to lift it. But the amazing thing was-the plane didn't fly away!! The wing covers worked-they spoiled the air flow over the wings as advertised...I give all the credit to the Kennon wing covers-the plane was still there."*

*Keith Echelmeyer, Geophysical Institute, University of Alaska.*

