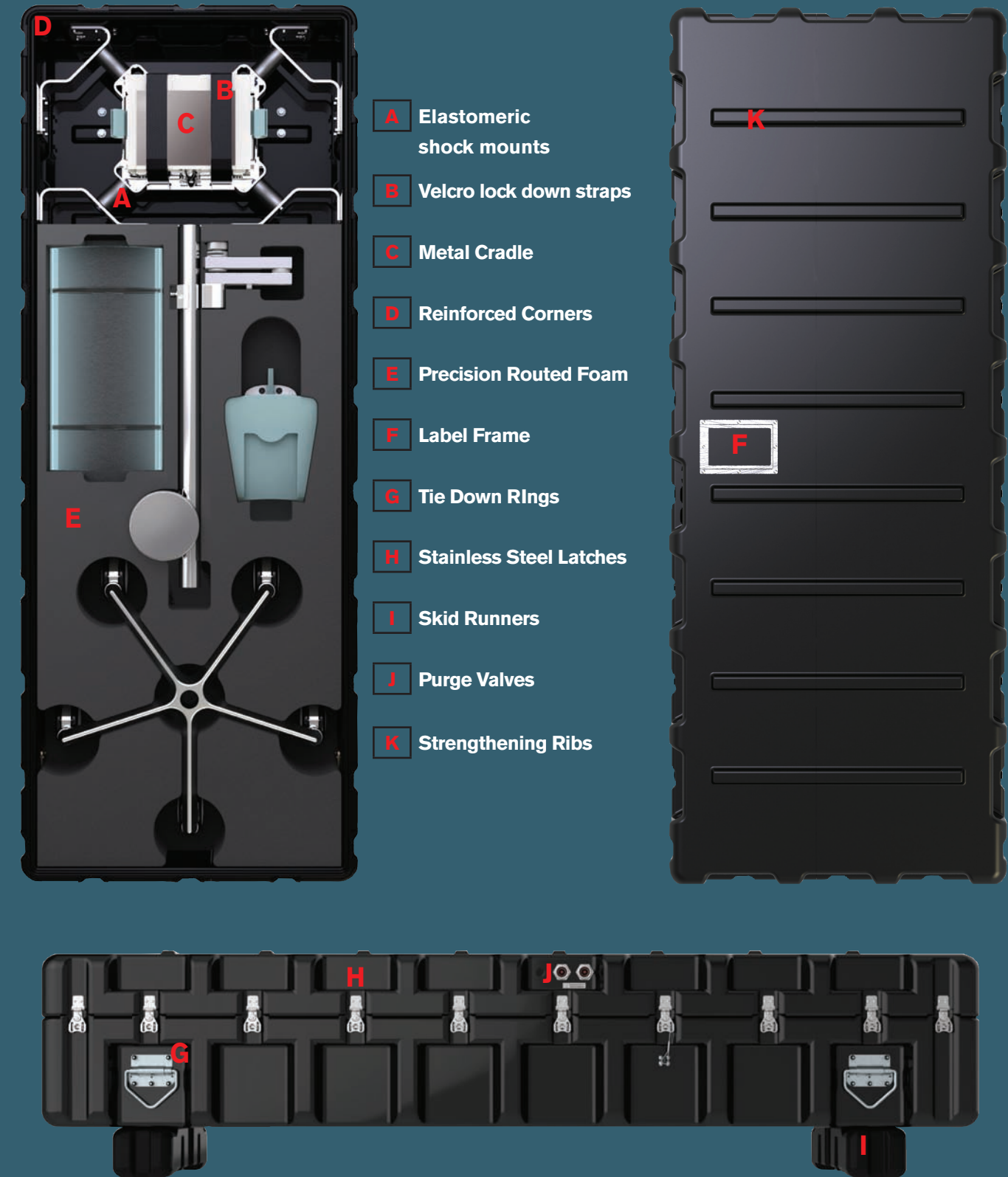


THE ANATOMY OF AN ADVANCED CASE SOLUTION



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INCREASED HEART RATE DILATED PUPILS SHORTNESS OF BREATH



DON'T LET SHIPPING DAMAGE STRESS YOU OUT.

ADVANCED CASE SOLUTIONS™ FOR COMPLEX MEDICAL SYSTEMS



MEDICAL SOLUTIONS

Medical Equipment design courtesy of Stuart Karten Design, Inc.

COMMUNICATION + COLLABORATION

PELICAN'S INTEGRATED PROCESS FLOW ANTICIPATES YOUR UNIQUE PROTECTIVE PACKAGING REQUIREMENT



SOLUTIONS DELIVERED

OVER 30 YEARS OF EXTREME APPLICATIONS HAVE FORGED OUR TECHNICAL EXPERTISE



ENDOSCOPE

Solution Delivered: The client required a reusable, rugged transport case to safely deliver the equipment to operating rooms. A Pelican™ injection-molded 1770 wheeled case was specified due to its watertight, crush and dust resistant properties. Anti-bacterial, closed-cell nitrile foam serves as an equipment tray, leaving the case outside the operating room. The foam can be sterilized repeatedly.



MINI X-RAY

Solution Delivered: This portable X-Ray medical unit is transported around the world via conventional shipping channels. Immediate and reliable performance on arrival is critical to proper diagnostics. A Pelican-Hardigg™ roto-molded case with elastomeric shock mounts and redundant foam protection eliminates the risk of in-transit damage.



CENTRIFUGE

Solution Delivered: A Pelican-Hardigg™ roto-molded case and custom foam cushion developed for medical maintenance operations allow the device to be transported in extreme environments. Drop testing using dummy loads with G-force sensors determined the appropriate foam configuration to meet stringent shock and vibration requirements.

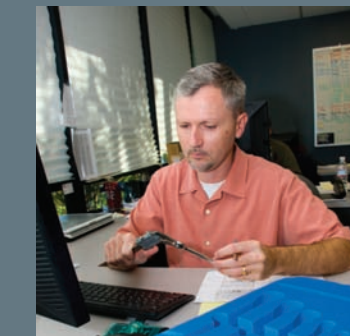


DRAGON X-RAY

Solution Delivered: Conceived to be rapidly deployed to mass-casualty emergencies or military forward operating bases, the Canon Mobile Digital Radiography (DR) system folds away to be packed into a Pelican-Hardigg™ roto-molded case for long distance freighting by air or truck. On arrival, the unit can be ready for use in as little as 2 minutes.

4 STAGE CUSTOM ENGINEERING

ELIMINATE LOGISTICAL RISKS WITH ADVANCED CASE SOLUTIONS



EVALUATION

- Product Specifications
- Customer Performance Needs
- Product Interface and Access Points
- Stability, Impact and Drop Requirements
- Environmental and Field Conditions
- Vent and Pressure Requirements
- Mobility and Freight Compliance



DESIGN AND ENGINEERING

- CAD, 2D Layout and Solid Models
- G-Force Mapping and Applied Cushioning Curve
- Tooling Design
- Equipment Support and Cradle Design
- Part Isolation and Sway Space Planning
- Usage and Operation Optimization
- Environmental Analysis



PROTOTYPING AND TESTING

- Shock and Vibration Attenuation
- Submersion and Rain Resistance
- Shear Force Testing
- Dust Particulate Ingress
- G-Force at Specified Drop Heights
- Extreme Temperature Tolerances



MANUFACTURING

- Warranted Parts and Accessories Engineered to Specifications
- Integration of Customer Parts and Accessories Per Functional Specifications
- Quality Control Testing and Inspection
- On Time Delivery
- Technical Support



Advanced Case Solutions are the result of a multi-disciplinary, 4-stage process. Working closely with your team, our engineers can customize a protective system according to your product specifications, usage and environmental analysis.

CORE COMPETENCIES

ONE SILO FOR ALL DESIGN, ENGINEERING AND MANUFACTURING



CASE MANUFACTURING

Pelican is the world leader in protective case solutions, earned over a 30 year long journey. Along the way we perfected injection molding, roto-molding and robotic assembly processes to deliver high quality cases consistently. The outcome is our Advanced Case Solution™, your guarantee that every aspect of protecting your medical device is built right in.

We supplement our primary case manufacturing plants with 8 regional facilities known as Advanced Case Centers, where

many of our customization services are available. This allows many of our customers to be directly involved in the design and testing of first article samples.

METAL AND FOAM PROTECTION

Metal decks or cradles can be created to secure heavy equipment. To protect this equipment from impact forces we use elastomeric shock mounts to isolate the metal fixture from the case shell.

Shock absorbing foam is available in a variety of densities, which is determined based on the fragility and weight of your equipment. Medical specific foams are compatible with radiation or bleach sterilization, and anti-bacterial foam can block mold and mildew.

Where moisture or fluids are present closed cell foams are useful because they repel liquids.

O-ring gaskets, forklift pockets, pressure relief valves and heavy duty spring loaded handles are just a few of the ways we can make your case much more than a box. And our best-in-class quality inspection and continual improvement programs guarantee that the last case is the same high quality as the first.

ELECTRONIC INTERFACE

Our cases are the ultimate mobile protection solution for electronic OEM



solutions. Installing your controls in a Pelican™ case enables its use in any environment, and closing the lid is all it takes to prepare for shipment. Water proof panel frames provide a secure ledge just below the opening line for mounting an electronics dashboard. CAD files are available in most case sizes for rapid engineering. Various bulkhead connectors allow electronic connection even with the lid closed.

A great medical device is only great when it arrives in working condition - our job is to remove that uncertainty. Know what you're getting into by choosing a Advanced Case Solution™ from Pelican.™

