## **REPEAT USE PACKAGING FOR SUPPLY CHAIN MANAGEMENT**



## **IT'S ALL ABOUT** THE MISSION

When an aircraft is in need of repair and crucial replacement parts arrive damaged, the result is lost revenue. If an aircraft is grounded, crucial repair parts must be in-stock and up to spec. The same applies to military operations – if the daily sortie count drops, the mission is at risk.

From keeping production on schedule to managing rotable spares inventory, reusable packaging from Peli is all about control.

## THE PRODUCT

All Peli<sup>™</sup> Cases are dustproof and crushproof, and can be specified as breathable or watertight. Sizes



can accommodate equipment from small elecronics to large fuel pods. There are four distinct lines of cases available: Peli<sup>™</sup>, Peli-Storm, Peli-Hardigg<sup>™</sup> Single Lid, and ISP<sup>2</sup>.

A Our **Peli**<sup>™</sup> and **Peli Storm** cases include over 70 sizes and are guaranteed for life. Protection against liquids and dust is provided



by an O-ring seal. And the automatic Pressure Equalization Valve prevents vacuum lock caused by changes in air pressure.

**B** The **Peli-Hardigg™ Single Lid** case line contains over 325 sizes and can include optional features such as built in skid runners and bash plates for forklift transport. They are moulded from lightweight, high-impact polyethylene, and are gasketed to prevent water ingress. Single Lid cases are customizable with a wide range of options.

C The new Peli-Hardigg<sup>™</sup> ISP<sup>2</sup> Case line is the ideal solution for volume shipping. The unique inter stacking pattern (ISP<sup>2</sup>) on the lid and the moulded-in cubes on the base eliminate load movement while maximizing cargo footprint.

## A CASE FOR REPEAT USE PACKAGING

Studies have shown that a durable, permanent packaging solution in shipment and storage is a cost-effective alternative to disposable packaging. Single use, expendable packaging such as cardboard or wood crates, require time and labour for assembly and disposal, and increase in-transit risk. With a Peli<sup>™</sup> case, the cost is amortized over its life. On some models, it's recovered in as few as two trips.

Contact Peli for your free ROI analysis.



### PELI-HARDIGG<sup>™</sup> ADVANCED CASE CENTERS

HARDIGG UK LTD. Unit 4, Brookfi eld Industrial Estate Leacon Road Ashford Kent TN23 4TU. United Kingdom Tel: +44 (0) 1233 895 895 Fax: +44 (0) 1233 895 899 Email: info@peli.com

### PELI PRODUCTS FRANCE S.A.S. U.S.A. & GLOBAL HEADQUARTERS PELI-HARDIGG CASES 20/22 Rue des Petits Hôtels. BAT B 75010 Paris, France Tel: +33 (0)1 44 83 95 63 Fax: +33 (0) 1 44 83 95 68 Email: info@peli.com

### FMFΔ

AFRICA HEADQUARTERS Tel: +34 934 674 999 Fax: +34 934 877 393 www.peli.com

UAE PELICAN PRODUCTS MIDDLE EAST JAFZA 13 office 032, P.O.Box 261008 Jebel Ali - Dubai - United Arab Emirates Tel +971 (0)4 8876550 Fax +971 (0)4 8876549

FRANCE PELI PRODUCTS FRANCE S.A.S. 487 rue Léopold Le Hon 01000 • Bourg en Bresse, France Tel +33 4 74 22 80 40 Fax +33 4 74 22 09 34 www.peli.com

> Peli guarantees its Roto Moulded cases for 1 year against defects in materials and workmanship and 90 days on hardware from the proof of purchase. All warranty claims of any nature are barred if the container has been altered, damaged or in any way physically changed, or subjected to abuse, misuse, negligence or accident. Refer to http://www.peli.com/en/content/peli-warranty for full details.

©2012 Peli Products, S.L.U. All trademarks are registered and/or unregistered trademarks of Pelican Products, Inc., a U.S. corporation, its subsidiaries and/or affiliates. All details included in this brochure are correct when printed but for most updated information please visit www.peli.com Part No. 0030-AER-001E MAY'12

Cover Image F-35 JSF: Use of the military image does not imply or constitute U.S. Department of Def

FOR I 2 CYCLES

EUROPE, MIDDLE EAST & Peli Products, S.L.U. c/ Provença, 388, Planta 7 08025 · Barcelona, Spain





### USA

23215 Early Avenue Torrance, CA 90505 USA Tel 310.326.4700 800.473.5422 (Outside CA) Fax 310.326.3311

USA HEADQUARTERS 147 North Main Street South Deerfield, MA 01373 Tel (800) 542-7344 Fax (413) 665-8330

nternational Sales Offices

GERMANY PELI PRODUCTS GERMANY GmbH Graf-Adolf-Platz 15 40213 • Düsseldorf, Germany Tel +49 (0) 211 882 42 401 Fax +49 (0) 211 882 42 200 www.peli.com

ADVANCED AREA LIGHTING GROUP PELI AALG LTD. 4 Chater Court Halifax Drive • Market Deeping Peterborough PE6 8AH, United Kingdom Tel +44 (0) 1778 349000 Fax +44 (0) 1778 349004 www.peli.com



## **MISSION CRITICAL** ADVANCED CASE SOLUTIONS FOR AEROSPACE AND DEFENCE



WE DON'T MAKE HISTORY. WE HELP KEEP IT ON COURSE.



Peli-Hardigg<sup>™</sup> Single Lid Case with custom engine mounts: the smart way to store and transport auxiliary power units (APU) for the aviation industry.

PELI'S INTEGRATED PROCESS FLOW **ANTICIPATES YOUR UNIQUE PROTECTIVE** PACKAGING REQUIREMENT

# PROCESS INTEGRATI

## **ELIMINATE LOGISTICAL RISKS** WITH ADVANCED CASE SOLUTIONS





## **4 STAGE CUSTOM ENGINEERING PROCESS:**

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

» 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

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

Warranted Parts and Accessories

- Engineered to Specifications
- Integration of Customer Parts and
- Accessories Per Functional Specification
- » 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 an customize a protective system according to your product specifications, usage nental analysis.

## ANATOMY OF AN ADVANCED CASE SOLUTION

## **CASE MANUFACTURING**

Peli-Hardigg<sup>™</sup> is the world leader in protective case solutions, earned over a 50 year long journey. Along the way we perfected injection moulding, roto-moulding and robotic assembly processes to deliver high quality cases consistently. The outcome is our Advanced Case Solutions, your guarantee that every aspect of protecting your components and equipment is built right in. We supplement our primary case manufacturing plants with 8 regional facilities known as Advanced Case Centers.

## **METAL AND FOAM PROTECTION**

Metal decks or cradles are used to secure heavy equipment, and elastomeric shock mounts isolate the metal fixture from the case shell



lock absorbing foam om fit to your nt, and a varie nsities and materia ons are availa cise kitting of aircraft ts and tools can mit ign object damage OD). O-ring gasket <u>lift pockets, pressure</u> valves and heavy du ng loaded handles are her custom options that nake a Peli-Hardigg™ cas

> **CERTIFICATIONS\*** AND APPROVALS

Water resistance and dust ingress

AIR TRANSPORT ASSOC. Spec 300 Category 1

MIL-Std 810, Def Stan 81 41 Level J Test reports available to certify military standards much more than a box. And our best-in-class quality inspection and continuous improvement programs guarantee that the last case is the same high quality as the first.

## **ELECTRONIC INTERFACE**

Installing your electronic controls in a Peli-Hardigg<sup>™</sup> case enables their use in any environmen Waterproof panel frames allow mounting an electronics dashboard, and various bulkhead connectors allow electronic connection ever

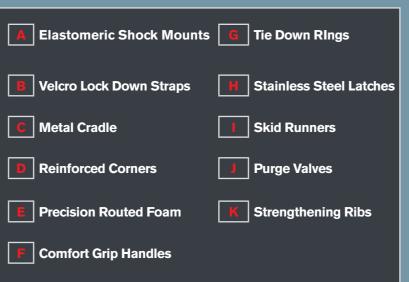
Ultra fragile ele equipment can be transported safely in Peli-Hardigg<sup>™</sup> mil-spec double end rackmount cases



With optional slide out frames and access from both ends. Rackmount cases enable fragile electronics to be deployed in any environment.



Advanced Case Solutions ke the quess work out



## SOLUTIONS DELIVERED: CASE BY CASE

OVER 50 YEARS OF EXTREME APPLICATIONS HAVE FORGED OUR TECHNICAL EXPERTISE



UNMANNED **AIRCRAFT VEHICLE** 



**AIR TO AIR REFUELING POD** 



## **METAL CRADLE**



**PORTABLE MECHANICS TOOL KIT** 



AIRCRAFT CANOPY DECK



C130 PROPELLER **EXCHANGE KIT** 



AIRCRAFT TEST **TOOL KIT** 

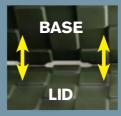


ENGINE **COMPRESSOR MODULE** 

## THE ISP<sup>2</sup> CASES WITH INTER-STACKING **PATTERN: STACK WITH AUTHORITY**

## IF IT'S GOT TO GET THROUGH. IT'S GOT TO BE IN A PELI-HARDIGG **ISP<sup>2</sup> CASE**

Shifting loose cargo can slow down your operations and threaten the mission with damaged freight. The



new ISP<sup>2</sup> Cases from Peli virtually nate load movement with a ique Inter-Stacking Pattern (ISP e system is compatible across 64 rent case sizes, from 0.018 to 0,576 cubic metres of storage.

## **BUILDING THE PERFECT LOAD**

The system is designed to maximize the volume of standard logistics platforms. Whether loading Euro pallets, NATO pallets, 463L Master pallets or sea containers, the ISP<sup>2</sup> Case system will make the most efficient use of cargo space. With its Inter-Stacking Pattern, ISP<sup>2</sup> Cases can be cubed out as a solid block. The 10x10cm squared pattern bottom matches with the cube pattern on the case below, literally falling and locking into place.



Cross-stacking builds ply tight loads that an save time wit ping or netting. T vs taller loads that n't shift or become se from turbulent ai oh seas or dilapidated conditions. In a wo he ISP<sup>2</sup> Case syst b-proof transport

## **ONLY THE STRONG SURVIVE**

Peli is the largest manufacturer of shipping containers in the world, so we know how to do it right. The ISP<sup>2</sup> Case material is a proprietary polyethylene formula that achieves the optimum balance of lightweight, panel rigidity and durability. Rotationalmoulding provides between 15% to 20% more material in the corners and edges of the case, resulting in more strength where it is needed. Every detail speaks to our 50 years of experience, from columnar ribs that withstand huge stacking loads to recessed hardware that "hide" from damage. Look even closer and you'll find metal reinforcements on hardware attachment points, positive anti-shear locks that keep the lid and base aligned during impact, and a tongue and groove

seal with a silicone sponge O-ring to keep dust and moisture out. Even the Pressure Relief Valve is smart allowing excess air pressure escape and preventing vacu lock from altitude change

## **MADE IN EUROPE**

The ISP<sup>2</sup> Cases are manufactured in Europe according to the most restrictive standards and this allows a close connection with local markets. With our two Advanced Case Centres in Ashford (United Kingdom) and Paris (France), Peli-Hardigg<sup>™</sup> offers customisation services allowing many of our customers to be directly involved in the design and testing of first article samples.

> Some ISP<sup>2</sup> Cases can have forklift provisions as an option.

CERTIFICATIONS

AND APPROVALS

Def Stan 81-41 Level J

\*Note: The ISP<sup>2</sup> Cases meet part or all of these shipping and packaging standards an specifications depending on the application.

STANAG 4340

ATA300



## > ISP<sup>2</sup> CASE FEATURES

MOULDED-IN STACKING RIBS Secure Non-Slip Stacking on Matched Size Cases



COMFORT GRIP HANDLES A Peli-Hardigg<sup>™</sup> Patented Feature,



## PATENTED MOULDED-IN

METAL INSERTS atch and Hinge Attachment nts, Designed to Distribute Load to Case Walls

## RECESSED HARDWARE

Protected from Impact Snag

### DOUBLE WALLED RIM FOR FONGUE-IN-GROOVE SEAL 🗋

Remains Sealed After Impact Splash and Rain Resistant Air and Watertight Options

POSITIVE ANTI-SHEAR LOCKS

Prevent Lid Separation Upon Impact



CORNERS AND EDGES

CARD HOLDER For tracking and identifying

