

ACS CATALOGUE

**ADVANCED CASE SOLUTIONS  
FOR AEROSPACE & DEFENSE INDUSTRIES**

OCTOBER 2017



SINCE 1976



# CUSTOMISED CASES ENGINEERED TO PERFECTION



## + METAL AND FOAM PROTECTION

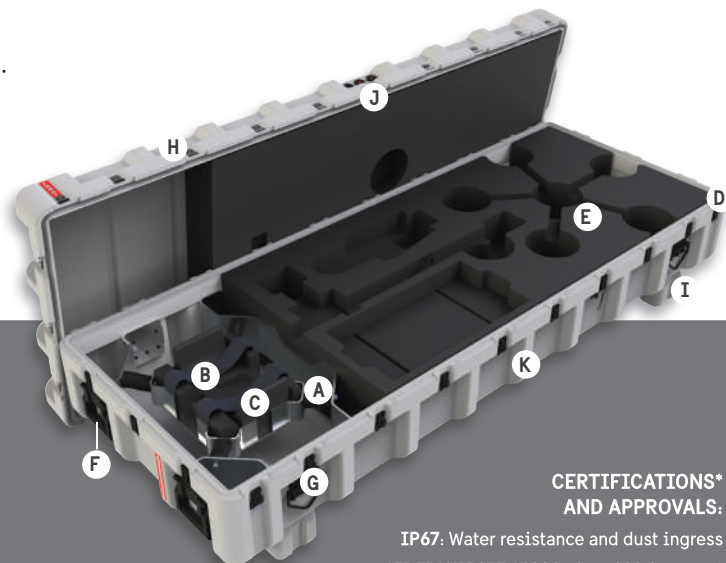
Metal decks or cradles are used to secure heavy equipment, and elastomeric shock mounts isolate the metal fixture from the case shell.

Shock absorbing foam is custom fit to your component, and a variety of densities and material compositions are available. Precise kitting of aircraft parts and tools can mitigate foreign object damage (FOD). O-ring gaskets, forklift pockets, pressure relief valves and heavy duty spring loaded handles are other custom options that make a Peli-Hardigg™ case 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.

## + SINGLE LID CUSTOMISATION SERVICES

Advanced Case Solutions are the embodiment of Peli-Hardigg proficiencies across materials science, packaging engineering, project management and manufacturing. As the inventors of the industry standard cushioning curve formula, innovators in case design and experts in protecting high-tech military equipment – few challenges are beyond our capabilities. Our highly renown single lid containers have protected the most sensitive, state-of-the-art technologies deployed around the globe according to challenging specifications of the military and aerospace industries. We are experts at Mission Critical success.

We supplement our primary case manufacturing plants with European engineering offices in UK, France and Spain.



## SINGLE LID CASE FEATURES

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| <b>A</b> Elastomeric Shock Mounts | <b>G</b> Tie Down RINGS          |
| <b>B</b> Velcro Lock Down Straps  | <b>H</b> Stainless Steel Latches |
| <b>C</b> Metal Cradle             | <b>I</b> Skid Runners            |
| <b>D</b> Reinforced Corners       | <b>J</b> Purge Valves            |
| <b>E</b> Precision Routed Foam    | <b>K</b> Strengthening Ribs      |
| <b>F</b> Comfort Grip Handles     |                                  |

### CERTIFICATIONS\* AND APPROVALS:

IP67: 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

\*actual approvals vary by case design



# STATE OF THE ART INTERIOR PROTECTION

Our internal teams have long-term experience in designing everything from simple foam cushions to extremely complex metal structures for use in dramatically diverse shipment, storage, and use conditions – including military deployments and combat situations. From deck-mounted equipment to bezel-mounted electronics with integrated exhaust fans to cases with multiple access points and interface portals or extended-profile customisations – no case requirement is beyond our capabilities.

In extreme temperatures, undergoing radical oscillation or direct impact, surrounded by water, chemicals or fine dust particulates – your product is protected inside our Advanced Case Solution. We control every stage of the process to ensure integrated performance of your part and our protective solution, from interior stabilisation to exterior hardware.

Investing in an Advanced Case Solution ensures your Mission Critical operations will not fail.



Peli's integrated process flow anticipates your unique protective packaging requirement



# 4 STAGE CUSTOM ENGINEERING PROCESS



## 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 Optimisation
- » 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
- » Mil-Spec Testing



## 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 customise a protective system according to your product specifications, usage and environmental analysis.

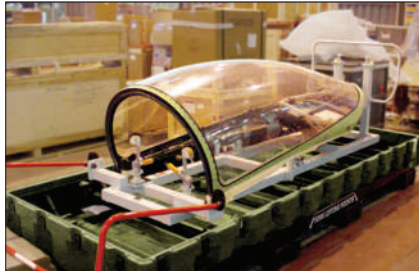


# SOLUTIONS DELIVERED: CASE BY CASE

+ OVER 50 YEARS OF EXTREME APPLICATIONS HAVE FORGED OUR TECHNICAL EXPERTISE. CONTACT US FOR OTHER CASE STUDIES.



**UNMANNED  
AIRCRAFT VEHICLE**



**AIRCRAFT  
CANOPY DECK**



**WEAPON  
GUIDANCE KIT**



**AIR TO AIR  
REFUELING POD**



**C130 PROPELLER  
EXCHANGE KIT**



**INDUSTRIAL  
TOOLS**



**SHOCK MOUNTED SOLUTION  
FOR UAV**



**WEAPON GUIDED  
FINS**



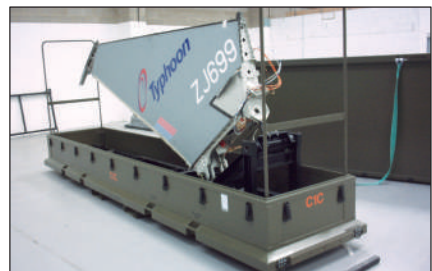
**TURBO ENGINE  
PT6**



**PORTABLE MECHANICS  
TOOL KIT**



**ENGINE  
COMPRESSOR MODULE**



**EUROFIGHTER  
FIN**



# EUROPEAN AND US PRODUCTION FACILITIES - CLOSE CONNECTION WITH LOCAL MARKETS

Peli-Hardigg's regional custom case facilities, known as Advanced Case Centers, are located in France, the UK, United States (east and west coast) and Canada, and offer a full slate of protective solutions. Services offered include high-end CAD design, metal deck work, g-force-rated shock mount systems, advanced foam cushioning and fabricated frame systems.

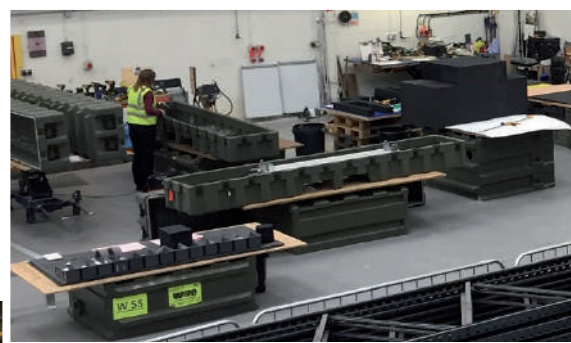
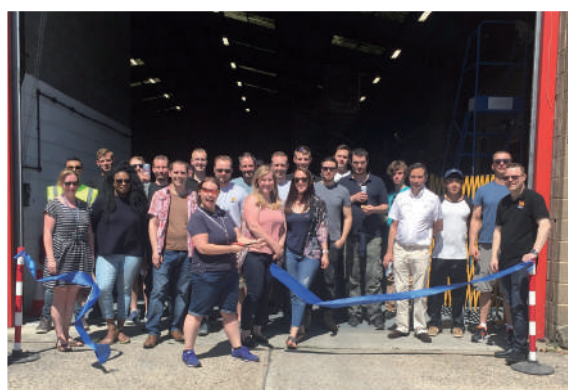
Our facilities are ISO9001 2008 certified and NATO Codified.



## + JUNE 2017: UK FACILITIES' SIZE DOUBLED TO +3.700 SQM

Thanks to the success and growth of the bespoke Engineered Cases, in June 2017 Peli-Hardigg doubled the size - from 20.000 to 40.000 ft<sup>2</sup> - of the manufacturing facilities at the UK Engineering branch, at Ashford, Kent. The expansion addresses the surge in demand for Advanced Case Solutions while modernising the site by bringing in the latest equipment to increase the productivity and further enhance the excellence and leading-edge of Peli-Hardigg products. On top of that, the production flow has been redesigned to improve our manufacturing efficiency.

As part of the expansion, Peli-Hardigg invested in a new twin head CNC router to give further capacity for the customised foam area of the business. In addition, the company has installed a foam shredder into the new facility, which greatly reduces its waste going to landfill, allowing its biggest waste source to be fully recycled into sports impact equipment.





## + COMPREHENSIVE TECHNICAL INFRASTRUCTURE

The Peli-Hardigg facilities count with the latest world-class equipment and rotational moulding machinery. Furthermore, our US South Deerfield facility includes a complete metal workshop to produce the majority of the metal parts needed to build our custom solutions.



## + TESTING...1-2-3

Military and OEM customers may need to certify the case will perform to specific requirements. Under precise control conditions our Advanced Case Centers subject our cases to a battery of rigorous lab tests including drop, vibration, leak, heat and dust tests.





# LEARN MORE ABOUT + OUR PRODUCTS



[www.peli.com](http://www.peli.com)



AVAILABLE IN 18 LANGUAGES!

[www.pelicalogue.com](http://www.pelicalogue.com)



[www.peli.com/webinars](http://www.peli.com/webinars)



## EMEA

### EUROPE, MIDDLE EAST & AFRICA HEADQUARTERS

PELI PRODUCTS, S.L.U.  
C/ Provença, 388 Planta 7  
08025 • Barcelona, Spain  
Tel +34 934 674 999  
Fax +34 934 877 393  
[www.peli.com](http://www.peli.com)

### FRANCE

PELI PRODUCTS FRANCE  
S.A.S.  
20/22 Rue des Petits Hôtels  
75010 Paris, France  
Tel +33 (0)1 44 83 95 63  
Fax +33 (0)1 44 83 95 68  
[www.peli.com](http://www.peli.com)

### UK

PELI HARDIGG UK  
Unit 4, Brookfield Industrial Estate  
Leacon Road  
Ashford Kent TN23 4TU  
Tel + 44 (0) 1233 895 895  
Fax +44 (0) 1233 895 899  
[www.peli.com](http://www.peli.com)

## U.S.A.

### U.S.A. & GLOBAL HEADQUARTERS

23215 Early Avenue  
Torrance, CA 90505 USA  
Tel 310.326.4700  
800.473.5422 (Outside CA)  
Fax 310.326.3311  
[www.pelican.com](http://www.pelican.com)

### GERMANY

PELI PRODUCTS GERMANY GmbH  
Düsseldorf Kö-Bogen  
Business Center  
Königsallee 2b, 5th Floor  
40212 Düsseldorf, Germany  
Tel +49 (0) 211 882 42 401  
Fax +49 (0) 211 882 42 200  
[www.peli.com](http://www.peli.com)

### UAE

PELICAN PRODUCTS FZE  
JAFZA One Building A office 1511/1512  
Jebel Ali Free Zone gate 5  
P.O.Box 261008  
Dubai – United Arab Emirates  
Tel +971 4 8876550  
Fax +971 4 8876549  
[www.pelican.com](http://www.pelican.com)

### PELICAN HARDIGG

147 North Main Street  
South Deerfield, MA 01373  
Tel (800) 542 73 44  
Fax (413) 665 8330  
[www.pelican.com](http://www.pelican.com)

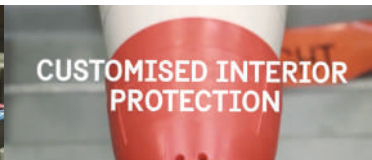
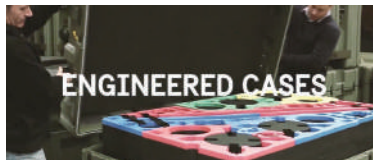
\* We also have offices in Canada, Japan, China, Australia, South Korea and India

### PELI 1 YEAR LIMITED WARRANTY

Peli Products S.L.U. ("Peli") guarantees its rotationally moulded products will be free of defects in materials and workmanship for one year from the date of invoice. This warranty does not cover any associated hardware including closure hardware, handles, wheels, and fasteners, which Peli warrants against defects in materials and workmanship for 90 days from the invoice date. This warranty applies only to the original purchaser and is not transferable. To the extent permitted by law, Peli's liability is limited to the case and not its contents and in no event shall Peli's liability to the purchaser for damages exceed the purchase price of the case in respect of which damages are claimed. 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.

For complete warranty details, see [www.peli.com/warranty](http://www.peli.com/warranty)

## Check out our new dedicated web page on Engineered Cases



Follow us on:



©2017 Peli Products, S.L.U. All trademarks are registered and/or unregistered trademarks of Pelican Products, Inc., its subsidiaries and/or affiliates. All details included in this catalogue are correct when printed but for most updated information please visit [www.peli.com](http://www.peli.com) and [www.pelicalogue.com](http://www.pelicalogue.com).  
Part No. 0030-006-100E OCT. 17

Peli conquers space! Check out the video of this stellar journey:

