



Clip-Lok SimPak®

Aeronautical industry

References



Raytheon

BAE SYSTEMS

BOMBARDIER



AIRBUS



GENERAL DYNAMICS
Strength On Your Side®

Clip-Lok International Ltd.



Clip-Lok International Ltd.

- Global packaging Group
 - Reusable and collapsible packaging
- Production, sales and marketing in 4 continents
 - Europe, US, Africa, Asia,
- More than 20 years experience
- Key Segments



Defence



Automotive



Aeronautical

Products and services

- Collapsible reusable boxes
 - Standard Boxes
 - 2P Boxes
- Made of plywood
 - FCS , PEFC and ISPM15 certified
- Strong and flexible
- Spring steel clips
 - No need for special tool
- Easy to maintain
- Dunnage

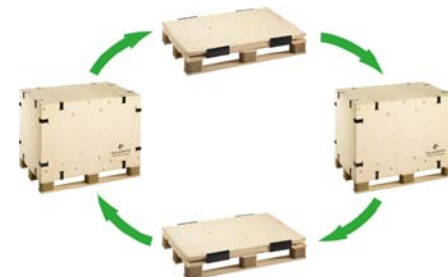
Services

- Feasibility study
- Engineering



Clip-Lok System

- Fast and easy handling
- Can be assembled by one person in a few minutes
- Can be dismantled with a simple tool
- Low maintenance costs
 - All parts can be replaced individually
- On 2P box the clip is retained in it's position
- Low environmental impact



Clip-Lok System

- The boxes can be stacked
 - Stacking of boxes save space and costs
- Boxes can be collapsed and stacked
 - Up to 80% volume reduction pr. box
 - Save costs
- The boxes can be a part of the production line
 - Optimises the flow and save time



Solutions for the aircraft industry

Designed by Clip-Lok

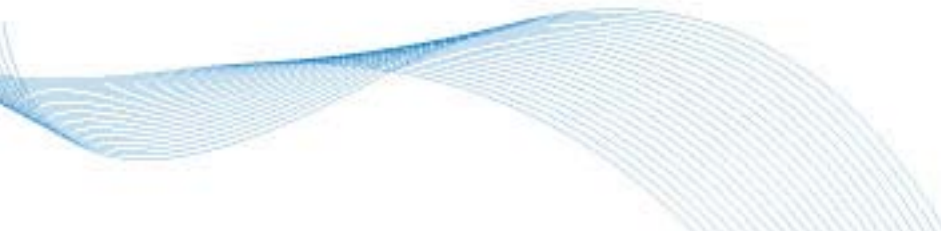
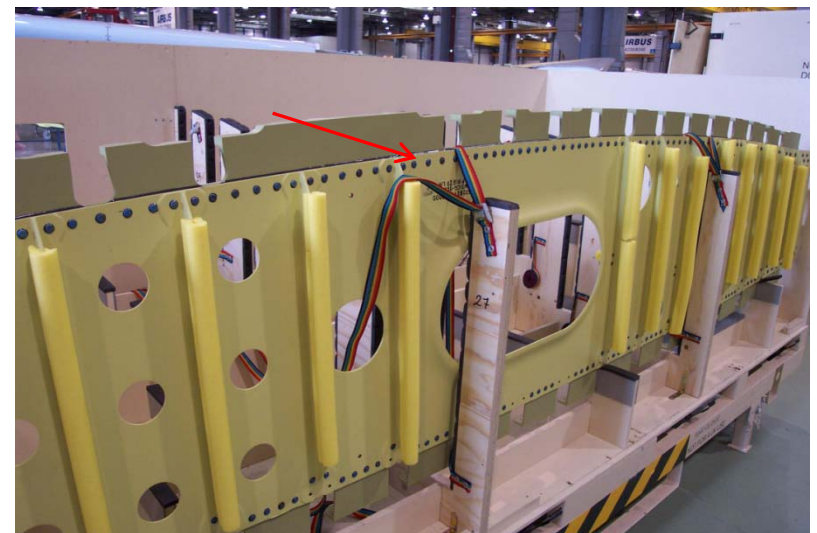
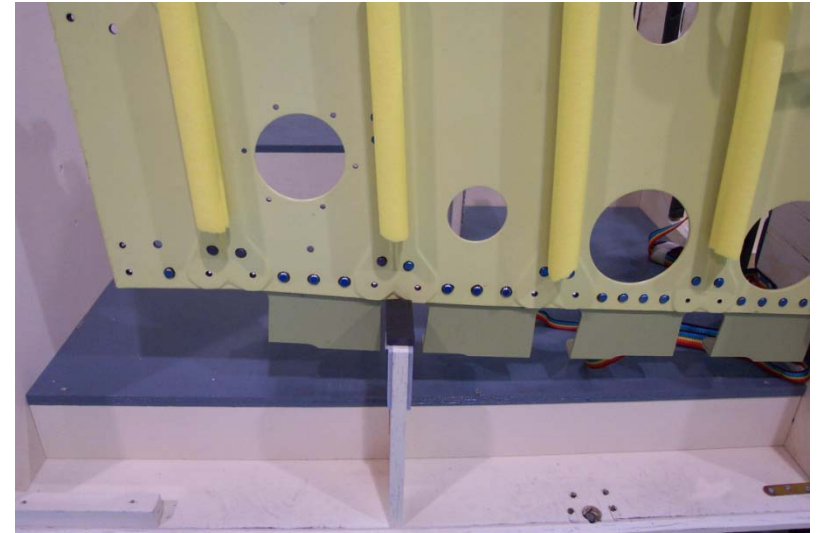
Airbus 380

- For tail wing parts
- To ease the handling of the parts all panels can be individually removed if necessary
- The side has a window for easy control of parts when in storage
- Dunnage is designed to obtain optimal protection of the parts and stability during transport



Airbus 380

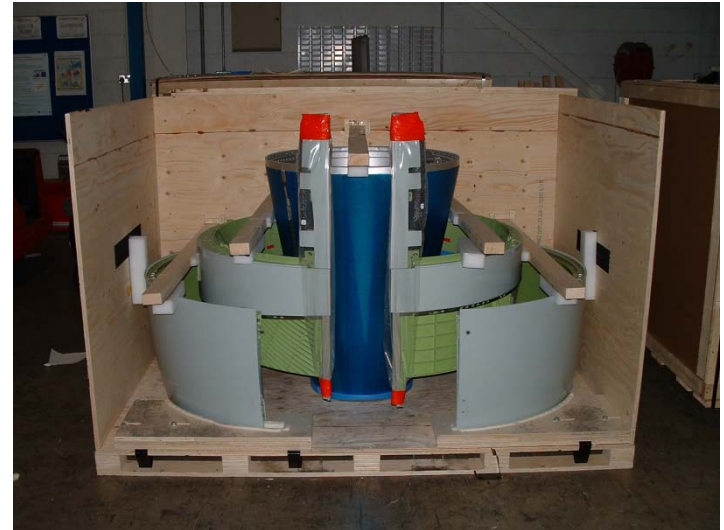
- To avoid scratches during transport the parts are separated with special designed dunnage
- The dunnage is designed in plywood with protective foam
- The parts are secured with quick straps to ease handling



Aero components

Examples

- Thrust Reversers
- Nose cowl
 - Exhaust pipe and external side panels included in the box
 - Excellent packing density is achieved
- Simple dunnage secure the parts

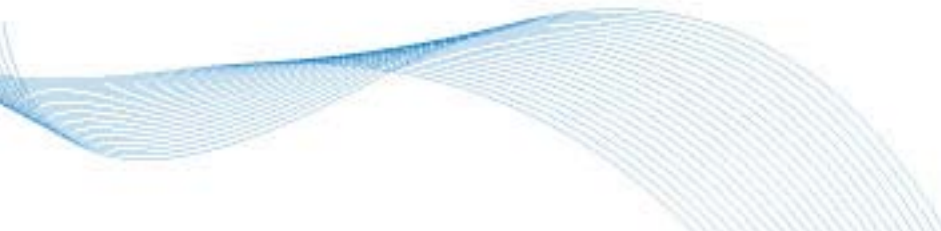


Aero components

Examples

- Fixes sides panels (Prototype box)
 - Optimum packaging density
 - Optimum protection

- Burification (Prototype box)
 - The box also contains electronic units and other parts for sampling



Dunnage

Correct design of dunnage is of high importance to ensure optimum protection

Dunnage

- Correct dunnage optimises the space usage
- The type of dunnage depends on the items to be transported and the way of transport
- Clip-Lok uses different kinds of dunnage
 - plywood, steel, plastic, foam etc.



Dunnage

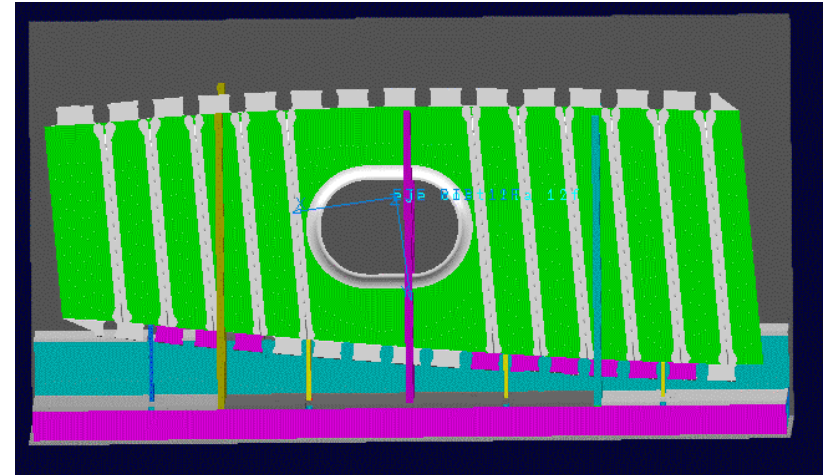
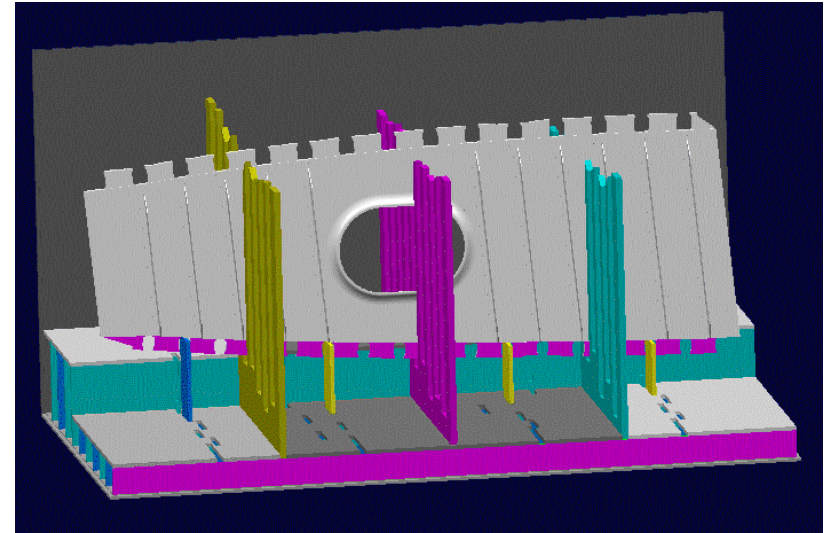
- Combination of various materials
- Special designed for each assignment
- Optimised space usage
- Self supported construction
- Steel constructions
- Integrated dunnage
- Supportive blocks



Engineering and Service

Catia integrated development

- The box design is simulated in Catia 3D program
- The systems allow us to conclude packing density without physical parts
- The system allows fast handling of inquiries
- Based on the simulation and knowledge a prototype can be ordered for testing



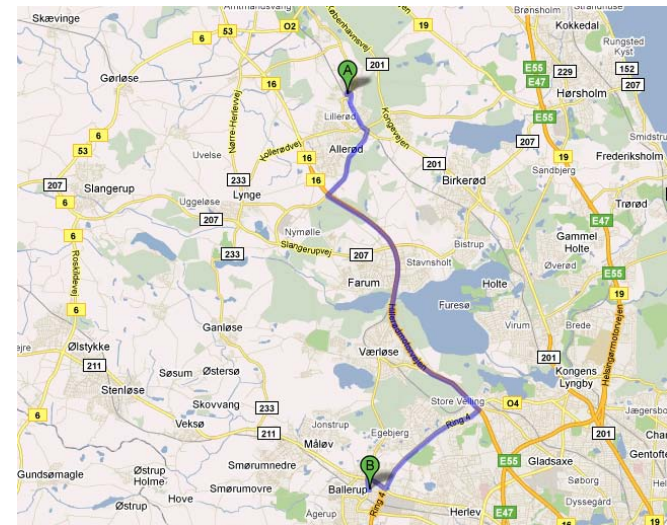
Tracking systems

■ GPS

- We can adapt GPS senders to our boxes for you to have the most modern tracking system

■ Radio Frequency Identification (RFID)

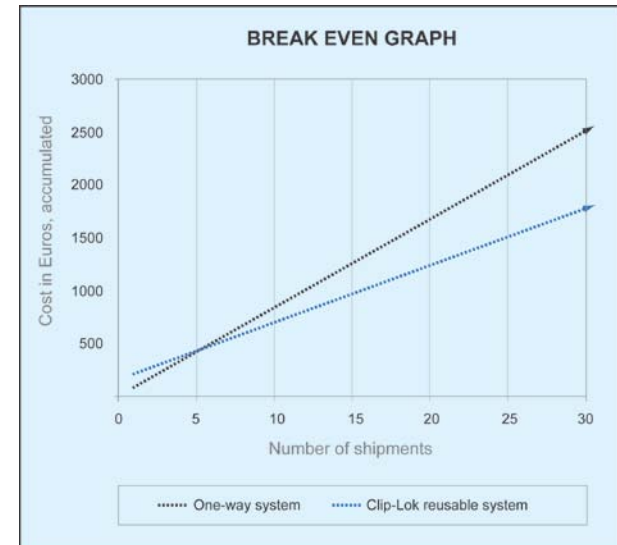
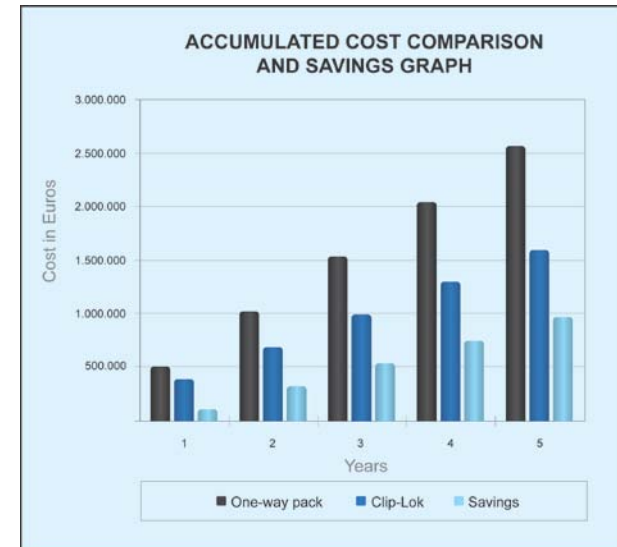
- We can adapt RFID tags to our boxes for you to have a modern tracking system



Feasibility study

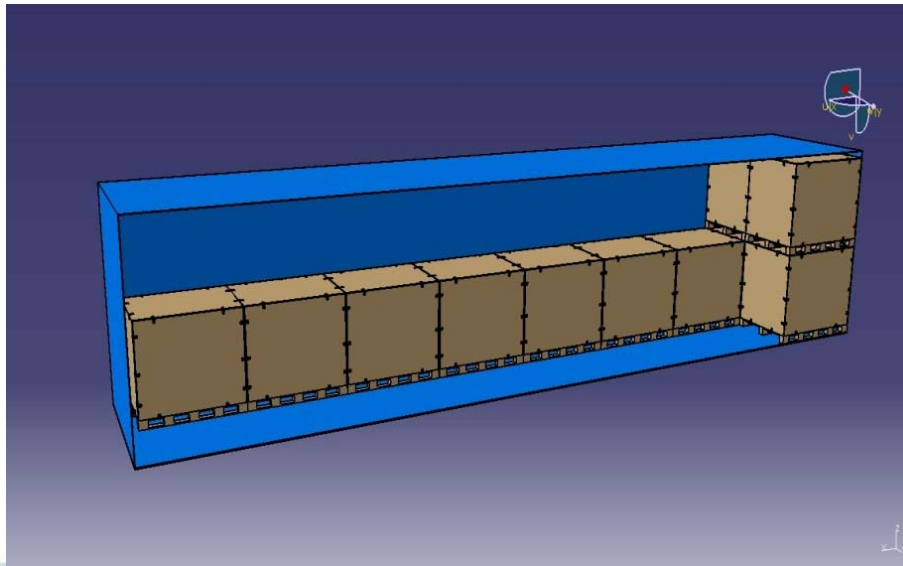
Clip-Lok is able to calculate:

- Your cost savings when using reusable Clip-Lok system instead of one-way boxes
 - Break even point
- The possibilities to increase the numbers of parts and boxes per shipment
- Potential cost savings when optimum dunnage is designed



Pack plans

- Pack plans can be provided upon request
- Boxes can be designed to match all kind of transport methods



Nr 1	Nr 1	Nr1
Nr 1	Nr 2	
Nr 3		
Nr 4		
Nr 1	Nr 1	Nr1

Contact

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