FREEPACKNE

takes care of the Environment.

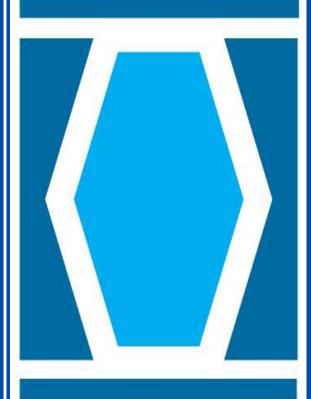
Returnable Protective Packaging (RPP) for the White Goods / Large Household Appliances

How to:

- Reduce damages to zero
- Reduce packaging waste to zero
- Reduce CO₂ emissions by 76%
- Reduce overall costs along the supply chain
- Be compliance with the Circular Economy

by

Renting a Returnable Protective Packaging



全球性的解决方案 全球性的问题,

Who's Free Pack Net



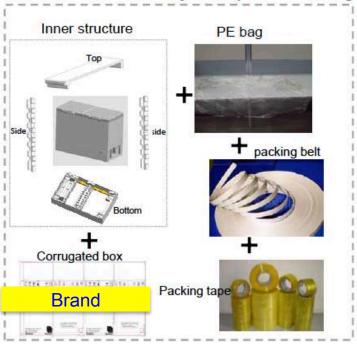


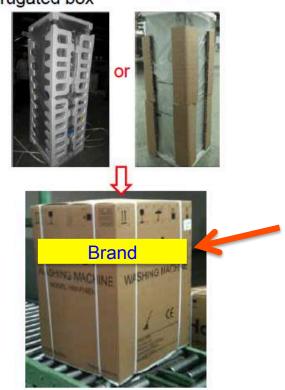
- Company Purpose: "We provide our Customers with solutions in Sustainable Development, Quality improvements in the Supply Chain and overall Costs Reduction by Integrating Returnable Protective Packaging with Reverse Logistic Management".
- It developed its own:
 - RPP Returnable Protective Packaging (global patent & mono material - Polypropylene PP)
 - **Standard for White Goods product families (start sector)**
 - **Reverse Logistics Network**
 - **Reverse Logistic Tracking Management System**
- Offering a full service, it replaces proprietary disposable one way packages with returnable ones, which are basically rented per cycle to Manufacturers or Retailers to protect the appliances (and the environment) from the factories to the final customers. With the support of its Reverse Logistics organization and the integration with Retailers and 3PL, it collects the RPP and deliver it back to the factories. After 20 cycles the RPP are grinded and the recycled material is re-injected to produce new one.

About Disposable packaging

2, Current packaging solution

Materials: EPS/ Honeycomb panel+ PE bag+ Corrugated box





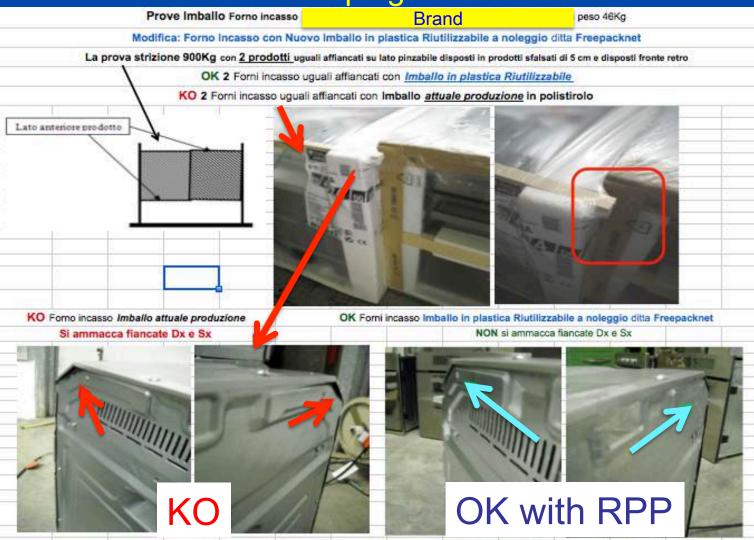
Disposable Packaging Weight: from 2,4 kg to 5,6 Kg and more.

Disposable packaging materials:

Styrofoam, cardboard, polyethylene film, wood, PET strips

Disposable packaging is not resisting

to vertical and clamping forces



2 - Disposable packaging is not resisting

to vertical and clamping forces

Prove Imballo Forno incasso

peso 46Kg

Modifica: Forno Incasso con Nuovo Imballo in plastica Riutilizzabile a noleggio ditta Freepacknet

KO Imballo Attuale produzione Si rompe listello imballo in legno posteriore (solamente Pinze 900Kg presa "pizzicato")

OK Forni incasso con Imballo in plastica Riutilizzabile Strizione 900Kg presa "tutta" e 900Kg presa "pizzicato"(OK anche a 1200Kg presa "tutta")



Products handling today

Clamping forces on the product



Damages - China





solution Global problem to a Global 全球性的解決方案 全球性的问题, From a

Damages - USA











Damages – Latin America





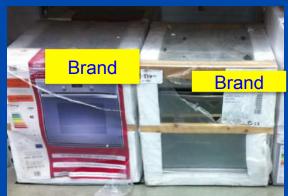


From a Global problem to a Global solution 全球性的问题,全球性的解决方案

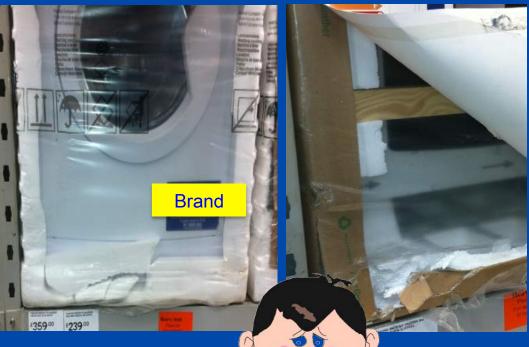
Damages - Europe











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全球性的解决方案 全球性的问题,

Free Pack Net take care of that

R & D IP

Design

Prototyping & Tests

Moulds (outsourcing)

Quality & Procedures

Injection (outsourcing)

Track & Trace

Reverse **Logistics** (outsourcing)

Strong Financial **Analysis &** Control

Procurement Direct & Indirect **Strategic Planning**

because Returnable Protective Packaging is our core business











Global problem to a Global solution From a

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Stacking forces on the RPP

The stacking limit is the height of the warehouse

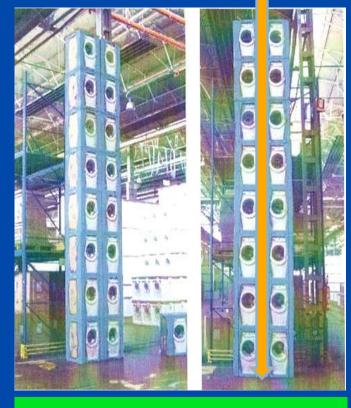


Disposable packaging 1200 Kg on the product



RPP 1200 Kg on the shell





可回收包装的堆码承重 堆码层数受仓库高度的限制 一次性包装是产品承重1200公斤 装是包装物自身承重1200公斤 产品能被再设计, 从而带来可观的原材料的节省!

可回收的保护性包

20170123 - Lugano, CH

The product can be redesigned with important savings in material!

RPP = High Stacking & Costs saving

- a) Warehouse 40.000 sqm
- b) n. 2 appliances (640 x 670 mm w x d) x sqm
- c) n. 12 rotations x year
- √ Example 1

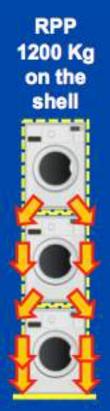
Stacking 3 level : 3 x 40.000 x 2 x 12 = **2.880.000** pcs / year

✓ Example 2

Stacking 5 level : 5 x 40.000 x 2 x 12 = **4.800.000** pcs / year

✓ Example 3

Stacking 8 level : 8 x 40.000 x 2 x 12 = **7.680.000** pcs / year





The RPP increase flexibility and reduce costs.

With the RPP it is possible to manage the seasonality and the overstock without extra investments.

Stacking, vibrations and Safety

This column dropping dov

With our antisliding technology, there is not any relative movements between the products

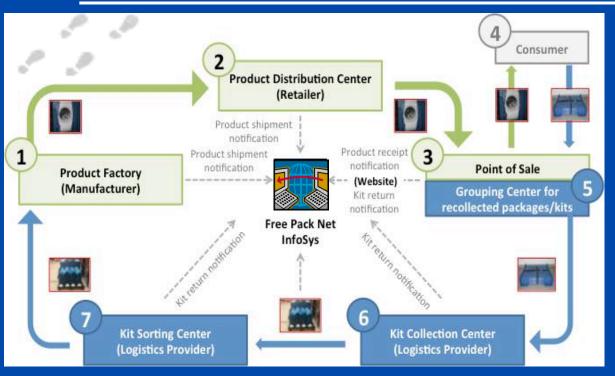


Time and Costs reduction

With our patented antisliding, no more wrapping with polyethylene film



Reverse Logistics & traceability



To improve the virtual network:

RFid could be used for RPP traceability along the Supply Chain



On primary, secondary and thertiary packaging, RFid improves, stock turn, inventory control with access to more accurate inventory data and reduces costs which leads to higher revenue and profits for manufacturers, 3rd part logistics, retailers and vendors.



From a Global problem to a Global solution 全球性的解决方案

Integration with Leader in Logistics









1 – Market validation – the Factory

A semi-automatic assembly line has been used in parallel of the main production flow.















全球性的解決方案 全球性的问题,

2 - Market validation - the Stores













Stores managers really enjoy the RPP because finally they have not to have anymore discussions on damages with customers



3 - Market validation - report from a Retailer

Stacking, Clamping, Safety, Environment

Brand

White goods re-usable packaging

Performance of packaging (clamping, stacking and container air bags)





Clamping

The re-usable packaging can be safely clamped in all six directions without affecting the integrity of the product up to 1500kg of pressure

Stack height

Units can be safely stacked to 10 high or a safe stacking weight of 1000kg





Container air bags

The re-usable packaging has a specially designed lid and base which gives maximum friction when stacking and transporting which negates the need for air bags to be used.

4 - Market validation – report from a Retailer

Environment

Brand

White goods re-usable packaging

Environmental concerns











Approximately 2kg of mixed packaging waste per unit is returned, sorted and processed at DC

Approximately 140 tonnes of polystyrene waste is generated each year just from built-in oven packaging.

Polystyrene packaging is extremely difficult to recycle as there are very few processing plants in the UK which are prepared to handle the material.

The re-usable packaging removes all of this waste and can be reused at least 20 times. The re-usable packaging is also 100% recyclable.



全球性的解决方案

Benefits package

Damages elimination

slide 24

2. Environmental protection

slide 25

3. Costs saving with IPPC **Integrated Product Protection Costs**

slide 26 - 28









From a

量也不会有所增加 Global problem to a Global solution 全球性的问题, 全球性的解决方案

1 – Global Damages

and transports.

From the Factories to the Final Customers, the 5% of appliances per year (equivalent to 16 M appliances) are damaged during handling and transports.

With the RPP, damages are reduced to zero. **Brand** The RPP rent price may include an insurance that cover any possible damage during handling

2 – Environmental impact

Packaging Waste per appliance : 2,4 Kg (conservative average)

Equivalent to 5,13 ton of CO₂

Global picture per year

- Production of white goods
- Packaging waste

- CO₂ emissions

320 Million units 768.000 ton

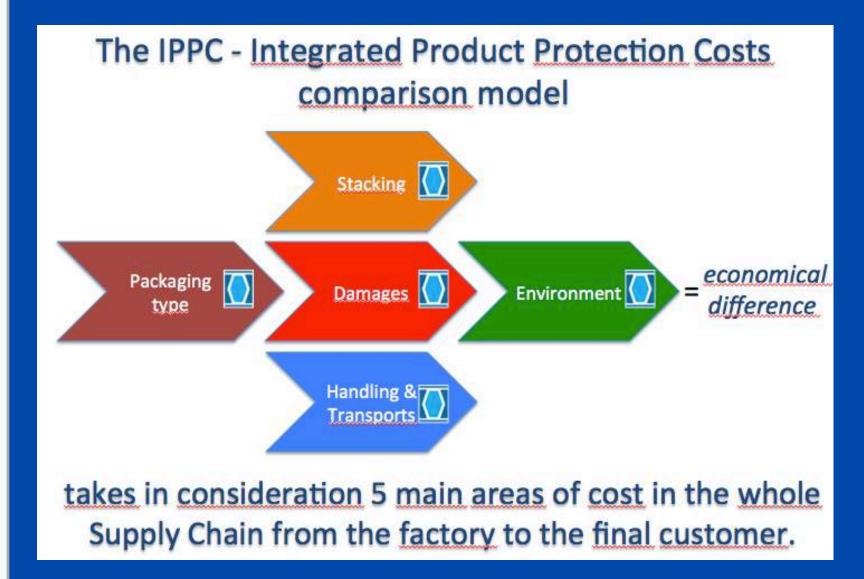
(equivalent to 2.560.000 Trucks)

: 1,640 Billion ton

With the RPP, waste is reduced to Zero and CO₂ emissions are reduced by 77%



3 – Protection Costs - A



3 – IPPC comparison - B

Disposable packaging Vs RPP

Working with Manufacturers and Retailers we have built up several real IPPC models.

With disposable Packaging the IPPC values start from 14 € per appliance to 28 €

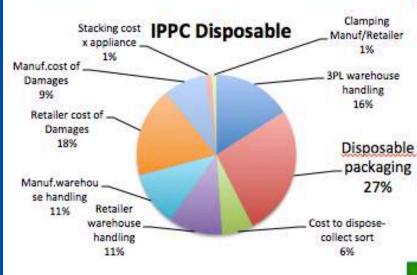
If we assume an IPPC average of 21 € (conservative), the economical saving per piece is around 15 €

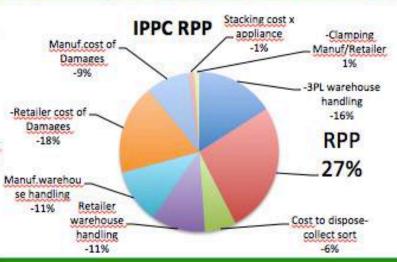
Disposal pack cost 6 € = 27% of total IPPC



RPP rent cost 6€



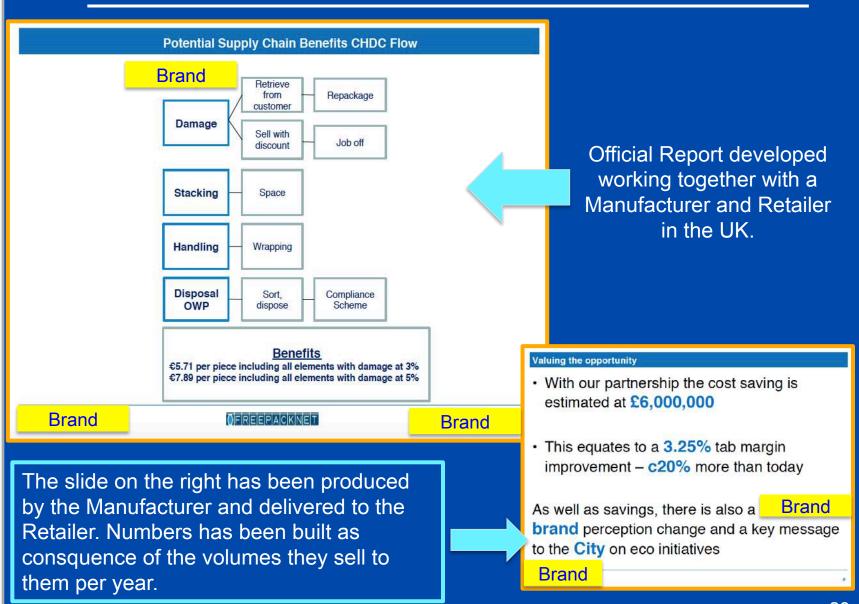




Saving with RPP 70 % = 15€ x piece

IPPC - Benefits Example (conservative)

Manufacturer, Retailer and FPN, working together to reduce waste and CO₂ emissions



Thank you for your "attention"









info@freepacknet.com