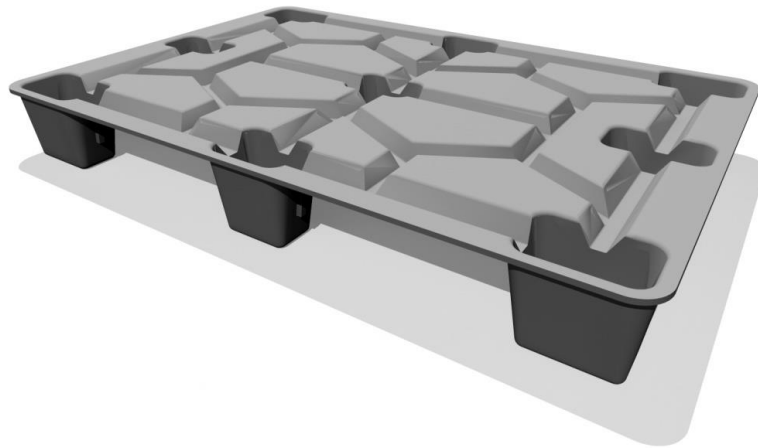


# Biodegradable transport pallet made of waste paper

## TECNOLOGY/PRODUCT OVERVIEW

The biodegradable transport pallet is an innovative, light eco packaging made of waste paper used for transport and storage of consumer goods, and kept in warehouses of major manufacturers, stores and other retail facilities. A single-use product which can be used again as a raw material in the same production line.



The biodegradable transport pallet is made of recycled material, waste paper, so it is a light-eco packaging. By its constructive solution with enough mechanical stability; the pallets enables easy stacking of empty pallets which saves storage space; because of decreased possibility of contamination suitable for transport of goods of food-, pharmaceutical and clothing industries; and also because of significantly reduced weight which represents the significant expenditure factor, recommendable for transport in the air traffic; enables equally easy approach to the leverages of the fork truck from both longer and shorter side of the pallet.

The problem it is trying to solve is to construct a transport pallet made of recycled material, which is biodegradable – to preserve forests, lighter – to decrease transport fuel costs, cheaper – to decrease packaging costs, easy stacking of the empty pallet, one into another – to decrease storage space.

The target users are the food-, pharmaceutical-, clothing and packaging industry.

The innovative, new product can be produced in many countries by selling the license of the patent with the know-how technology.

## **TECHNOLOGY/PRODUCT FEATURES, SPECIFICATIONS AND ADVANTAGES**

The innovative aspect of the product are: made of paper pulp makes it light , by its constructive solution kept its mechanical stability, enables easy stacking, saves storage place, enables easy approach to the leverages of the fork truck, completely ecological, biodegradable.

The invention has the following advantages, among which the most important are:

- significantly less space for storage, can be stacked one into another (32pcs can be stacked one on other on the height of 2.5m, pallet made of wood can be stacked 16pcs on the same height),
- lightweight,
- decreased possibility of contamination,
- enables easy approach on both sides to the leverages of the fork truck.
- ecological, biodegradable

The advantages over already known technical solutions with the above mentioned are:

- much shorter time of production,
- no waste in the production because the scrap returns to the production process,
- cheaper

The weight of 1 biodegradable transport is till 6kg, load capacity till 700kg.

## **POTENTIAL APPLICATIONS**

The biodegradable transport pallet primary application is in the food-, pharmaceutical-, clothing and packaging industry. The biodegradable transport pallet can be used all over the world, so the estimated size of the market is huge, markets of Europe, Asia and USA.

### **CUSTOMER BENEFITS**

According to feasibility studies made for some European countries the profit is up to 45% of the income.

Social benefits can reflect on the area where the production is taking place by buying up waste paper from the local community collectors.

The environmental benefit is the usage of waste paper in the production and there is no waste because the scrap returns in the production process.

### **TECHNOLOGY READINESS LEVEL:**

The technology readiness of the product is level 7.

### **If you are interested, please respond to:**

**Mr. Balázs Mogyorósi**  
**Technology Transfer Manager,**  
**Head of TT Department**  
LC Innoconsult International  
[innovacio@lcinnocconsult.com](mailto:innovacio@lcinnocconsult.com)

