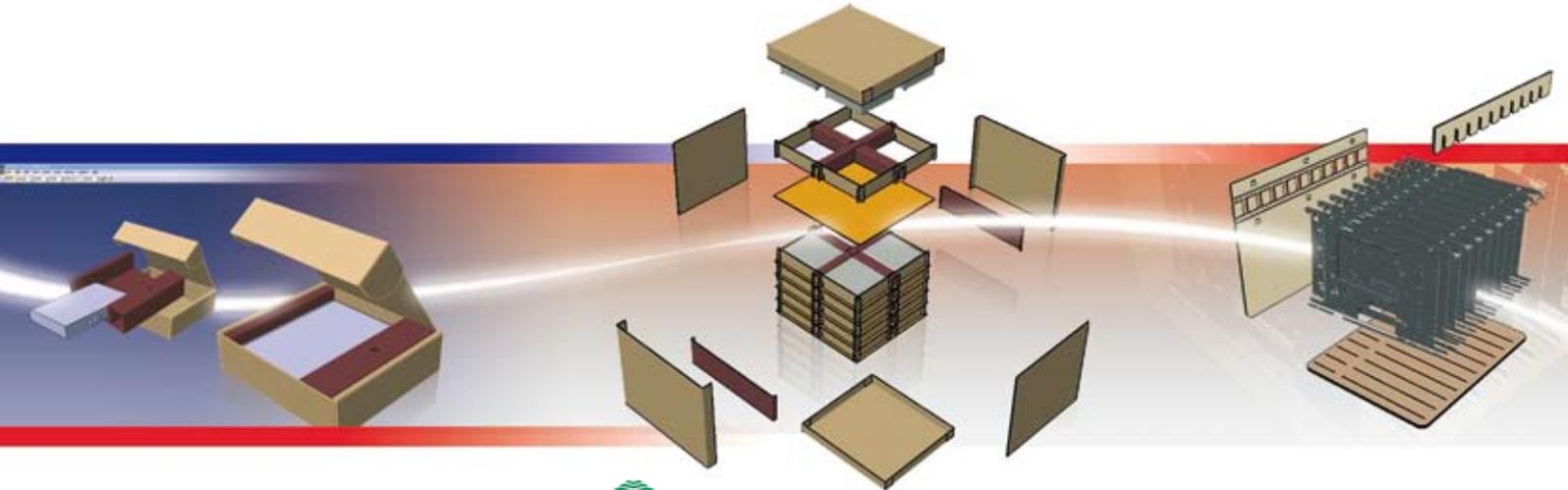


Dunapack

Reduces development time by one-third with CATIA PLM Express



Overview

■ Challenge

Dunapack needed to upgrade its technology and expand its design department to outdistance the increasing number of packaging competitors on the market

■ Solution

Dunapack chose CATIA PLM Express to design the optimum packaging for automotive parts and electrical components for its automotive customers

■ Benefits

Dunapack has reduced costs and development time by 33% with CATIA PLM Express



“With CATIA PLM Express, we can communicate with our customers in a virtual 3D environment and design right the first time, thereby reducing development time by one-third.”

Zsuzsanna Ráthonyi, Combined Designer,
Dunapack



Market leader for paper-based packaging

Hungary-based Dunapack is a market leader in the manufacture of paper-based packaging in the Central-Eastern European region. The company was purchased by Austrian interests in 1990. Its most important products are corrugated base paper and corrugated products. Corrugated boards satisfy the demands of various industrial sectors because they are sturdy, can be flattened for easy transportation, range from light weight to heavy-duty and are environmentally friendly.

One of the challenges facing Dunapack is the increasing number of fast-growing packaging companies on the market. Dunapack needed to invest in new converting and printing technologies with up to seven colors and new machines to differentiate itself from the competition. It also needed to expand its design department to handle the increasing number of orders. Today, Dunapack has ten designers at its headquarters in Budapest.

Having this many designers, as opposed to one or two, is a considerable advantage with respect to the competition. They use their creativity and technical background to design customized packaging tailored to customer needs. This innovative approach has won Dunapack many new customers in the Central-Eastern European region.

CATIA PLM Express designs right the first time

In 2006, Dunapack adopted CATIA PLM Express to better respond to the needs of its automotive and automotive electronics customers that use CATIA to design their products. Previously, most customers would give Dunapack a physical part and its designers would have to measure the part using conventional manual methods, which were not always precise. They would then design the package, produce a physical prototype in their production facilities and test the package to see if the part fit correctly and if there was not too much wasted space.



Very often, adjustments were required because the parts did not fit or the package was too big, forcing Dunapack designers to go back and modify their design, produce a new physical prototype of the package and test it again. This trial and error procedure was costly and time consuming and not a satisfactory solution for Dunapack's customers.

Thanks to the implementation of CATIA PLM Express, Dunapack has successfully transformed its design processes by adopting a more innovative approach to packaging design. Customers now provide Dunapack with 3D CATIA models for the products they want to package and Dunapack designers design the right associated package directly in their CATIA PLM Express environment. Thanks to the software it is also possible to design packaging for products that have not yet been manufactured. This means that production of the goods to be packaged can take place in parallel with package design. Dunapack is the only company in Hungary to work this way.

Optimizing and finding the right design for the product to be packaged

When Dunapack receives a CATIA model, it uses CATIA to perform measurements on the product - a considerably more precise method than performing manual measurements - and to design

the package that best fits around the product. It also shows its customers the interaction between the two in a virtual 3D environment. The ability to simulate within a virtual 3D environment the way the box folds around the product provides valuable information on how to handle the package and helps avoid manipulation errors that can compromise structural integrity. "Showing our customers the way the package folds and unfolds in 3D has been a powerful educational tool for our customers since they are able to see how to manipulate the box and how their product will fit inside", said Zsuzsánna Ráthonyi, Combined Designer at Dunapack's Hungarian office.

"CATIA is the best way to create the optimum package for the customer's product since we can ensure that there will be the least amount of wasted space", she continues. "It also saves us the considerable cost of having to produce physical prototypes to validate our designs. By communicating with customers in a virtual environment and by designing right the first time, we have succeeded in reducing development time by one-third", she adds.

CATIA PLM Express's role-based approach allows Dunapack to easily tailor its CATIA installation with the right options. For example, it uses the surface design capabilities, available in CATIA Team PLM,

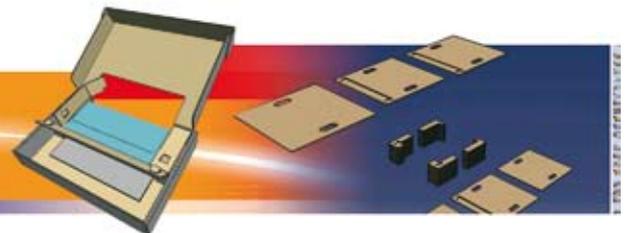
CATIA PLM Express's core configuration, to obtain measurements of the virtual model provided by its customers as well as for the design of the package itself. It also uses CATIA's sheet metal capabilities, available in the CATIA Fabricated Product Creation option, to handle corrugated cardboard that needs to be folded around the CATIA model of the product to be packaged. The solution's flexible and intuitive interface made it possible, with just two weeks of training, for Dunapack designers to master the system and to begin designing the best possible packaging solutions for its customers.

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Zsuzsánna Ráthonyi, Combined Designer, Dunapack



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