

CASE STUDY **4**

Optimisation of Transport and Warehouse Efficiency

INITIAL SITUATION

For some years we have been manufacturing a high-volume circular tub for an English customer. To reduce logistics costs, the customer's transport and warehouse efficiency required optimisation.

INDUSTRY

Chocolate manufacturers

STRATEGY/REASON

Optimisation of transport and
warehouse efficiency



TASK SETTING

The overall appearance of the packaging was to be retained. Consumers were not meant to notice the change. The current filling line had to be able to process the new packaging without any major refitting being required.

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REALISATION

Through detailed analysis, the key factors for transport and warehouse efficiency were determined. State-of-the-art CAD systems were used to develop an optimal design. Realistic prototypes were used step by step to determine the maximum efficiency of the packaging for transport and storage. The final version was then copied to a close-to-production sample tool. It allowed the manufacture of greater sample quantities (> 50.000), which were required for production line test at the customer's site. Following its successful optimisation, the final design was transferred to the series tools.

RESULT

The new cup design which has improved the efficiency of transport and warehousing by 35%.




CUSTOMER BENEFIT

The new packaging significantly reduces transport and warehousing whilst also increasing productivity at the customer's site, by reducing the number of pallets required by 35%. The reduction in road transport has reduced annual CO₂ emissions by 250 tons.



RESULT

Improvements in

-  **transport and warehouse efficiency**
-  **productivity**
-  **CO₂-emissions reduction**