

Reference case

MAGNA STEYR

Transportation of airbags for the new BMW X3

The Magna Steyr Case

Magna Steyr automotive engineering is part of the Magna Group and produces vehicles for several manufactures in Graz, Austria.

There are two different steering wheel airbags and one front-seat passenger airbag for the new BMW X3 which are delivered by suppliers in Germany and Poland. The task was to develop a UN certified reusable packaging solution which is suitable for all three airbag types and which provides the highest exploitation of transport capacity when loading the truck. The inner packaging was to be customised for each type of airbag, but the outer measurements were to remain the same in order to use a standardised packaging for all products.

The Nefab Solution

In order to find the best solution for Magna Steyr a project team was formed between representatives from the two companies. The team decided on a steel box measuring 1200 x 800 x 975 mm with three antistatic EPP trays for the inner packaging. These were tested by the Austrian Packaging Institute and awarded UN approval for the dangerous goods groups II and III.

Benefits for Magna Steyr

The measurements of the steel box enables a three tier stacking during transportation. Thanks to the customised EPP trays for each type of airbag they can all be transported safely without any damages.

Another advantage is that all trays have the same outer measurements and so the same size steel box can always be used again. Also, due to the weight of the EPP trays, the handling of the products at the production line is very easy.



Passenger airbag



Drop test for a filled steel box from a height of 1,20 m