Reference case

Cummins Darlington

Reusable solution for the engines parts

The Cummins Case
The Darlington Engine Plant, UK, is a part of the global Cummins Engine group, one of the world's biggest diesel motor manufacturers. The Darlington plant produces several different sizes of diesel engines. The project brief was to analyze the supply chain flow for two sizes of crank shafts delivered into Cummins Darlington by their UK crank shaft supplier Bifrangi Sheffield. The initial issues Cummins had with the existing crank shaft packaging was that the current solution was a one trip expendable pack. This produced high amounts of material waste on site, which was very costly and inconvenient.

The Nefab Solution
Cummins turned to Nefab due to their strong position in the UK market and good reputation as a packaging solutions provider. Nefab UK specialists performed a thorough packaging analysis and soon came up with a new design, which addressed Cummins requirements. It was decided that an investment in a Nefab returnable system would be the most cost-efficient solution. The Nefab project team proposed a 12 mm plywood RePak T solution which was modified to fit the customer's special requirements. As a result, Cummins Darlington got a new, complete packaging solution: 12 mm plywood boxes in two different sizes, with dedicated internal dunnage for additional product protection.

The Benefits for Cummins
Cummins UK is very pleased with the reusable solution and Nefab's cost take-out approach, leading to significant savings. Totally, it is estimated that investment in Nefab's reusable system will allow Cummins to decrease the packaging cost by 62.5% during the project's lifetime. Moreover, the forecasted payback time will be only seven months. The main problem Cummins faced with the expendable packaging, material waste, was completely eliminated. Other benefits are simplified handling and transport space optimization.

RePak T with dropdown gate for simplified handling

Nefab RePak T with inner fittings and protective dunnage