

Optimization conveyor stacker belt of the Neopost / Quadiant IS-6000

Initial situation

A huge end user of Neopost / Quadiant mailing systems had many problems with the newest generation of equipment of its IS-6000 mailing unit. The previous models of the tray had a self-guided, elastic flat belt with conical shafts. The latest generation of equipment used in the outlet of the IS-6000 belt and shaft with 25-ribbed profile which is used to keep the belt against transverse load in continuous operation on the shaft. In real operation, however, the belt jumps regularly and therefore rubs laterally, up to rising cracks and premature failure of the conveyor belt.

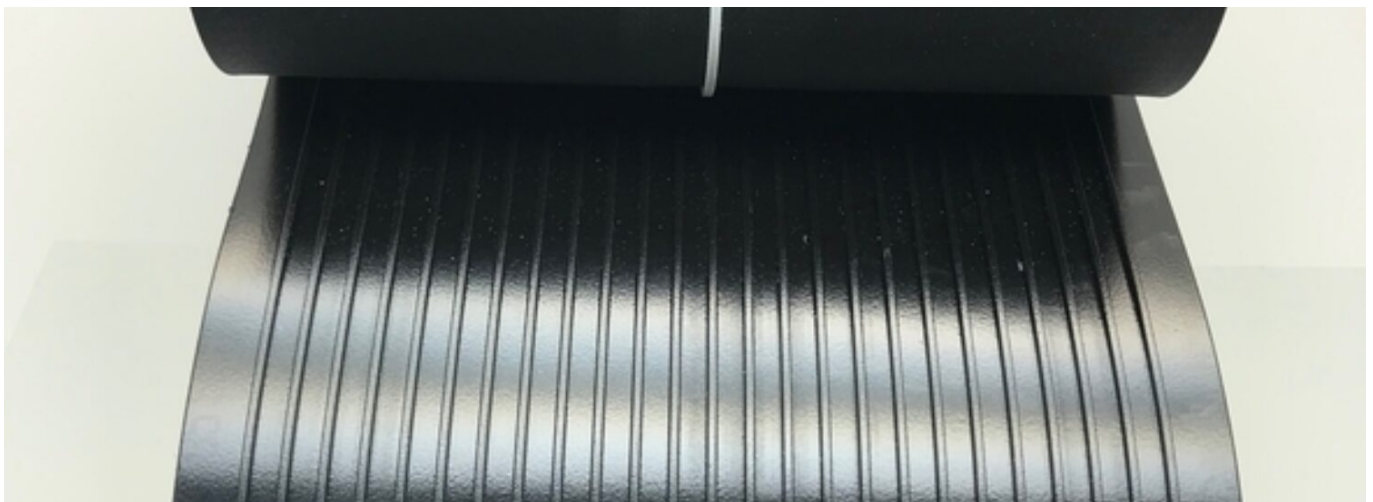
Task

The end user has been working with Dipl. Ing. Werner Graf AG for many years and relies on the expertise of the engineering department in terms of plant optimization and maximization. So he came to us with the challenge of an optimized belt. The inclusion of the installation and production parameters is part of our daily business; in the optimization of an already launched conveyor line is the necessary incentive.

Solution

Equipped with the storage unit, we're walking in the workshop of the Dipl. Ing. Werner Graf AG and have analyzed the factors influencing the early loss of the belt and located them. Several guide ribs in an elastic belt provoke an increased source of interference because the positive guidance counteracts the idea of the elasticity of the belt. In order to prevent this from happening with the drive, Dipl. Ing. Werner Graf AG has developed an alternative belt, optimized strength properties and at the same time reduced the number of guide bars to the optimum of one rib.

For several months, the developed belt has been running maintenance and trouble-free at the equipment of the end user. The customer has already converted all other mainly units to the solution of Dipl. Ing. Werner Graf AG.



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