

The assembly friendly round belt - rough, green and twisted

Initial situation

The assembly of endless round belts is very time-consuming and therefore cost intensive for the system operator, mainly depending on the design of the roller conveyor.

A leading manufacturer of roller conveyors approached the engineering team at Dipl. Ing. Werner Graf AG and launched the idea of a round belt to support the worldwide need for spare parts to its systems in terms of ease of assembly.

Constructively the belt in design and dimensioning needs to match the serial part, but the consistently high product quality of the polyurethane material may not deviate.

Task

We know exactly the physical properties of our polyurethane compound for the RONDLAST® high-performance round belts in series use, as well as the system-specific power transmission values ??of the endless belts that have been supplied for many years. By means of internal test series, laboratory analyzes and force-elongation tests, we have succeeded in calculating the exact length required for a twisted round belt and producing the first belt samples in our production facility. Cord dimension, angle of two strands of twisted cords, loop geometry and also the geometry of the hooks were correctly assessed, so that the preliminary tests already ensured maximum satisfaction with the system manufacturer.

According to the customer request, the polyurethane quality has been changed to the effect that the tried and tested surface structure of the customers round belt gives rough. The series belt was also selected in our highest product quality PU green, rough 88 ShA - technically possible and feasible for our flexible production.

Solution

Together with our end customer, it is thanks to the team effort of Dipl. Ing. Werner Graf AG that we were able to bring a new generation of belts RONDLAST® W PU green rough onto the market.

An individual product that our end customers in the permanent challenge for market leadership generated a projection. And the end user ensures a conceivable quick and easy to install round belt assembly and given us in our pursuit of innovation a new product line.



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