

Development of décolletage - endless-spindle drive belts

Initial situation

Our customer's high-quality precision turned parts have been highly valued by its global customers from all industries for many decades. The machine park includes the most modern CNC machines as well as conventional lathes how e.g. Tornos TV/T/M4 or a M7 for large series production. The high level of system availability makes a significant contribution to the success of the company.

Task

Unplanned maintenance and service intervals due to premature belt failure not only cause high operating costs but also repeatedly disruptions in the planning process of the internal operational process. Despite intensive efforts, manufacturers since then have been unable to achieve the goal of optimizing belt life. Internet research ultimately brings the management to the engineering team of Dipl. Ing. Werner Graf AG.

An extremely oil-resistant, smooth-running and therefore long-lasting flat belt should be developed.

Solution

The most common cause of failure due to the oil environment and load changes on the previous flat belt drives is the adhesive and thus the connection point of the flat belts. This resolves completely uncontrolled after shortest time.

All rubber grades commonly used on the market are more or less sensitive to the drilling oil emulsions used in the turning process. A new rubber quality for the décolletage industry, consisting of NBR components, was found. Combined with our unique fabric impression and the highest-quality tension member arrangement, this latest generation of flat belts exceeds the very high quality standards.



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