

MECHANICAL ENGINEERING PROFITS FROM TECHNOLOGY CONSULTANCY

THE CUSTOMER

Swiss engineering company Fleury SA, based in Biel, is a specialist manufacturer of modular transfer lines. Its flexible processing and assembly modules are primarily used in the watchmaking industry.

THE INITIAL SITUATION

Fleury's development team is faced with a challenge: A three-axe drilling/milling module shows scope for improvement in terms of hysteresis and overall rigidity. The target value is in the micrometre range. The planned overhaul should consider all possibilities for optimisation, while also aiming to reduce costs.

PROJECT REQUIREMENTS

- ▶ To improve the hysteresis of the processing module
- ▶ To improve the overall rigidity
- ▶ To shorten cycle times
- ▶ To optimise costs

BACHOFEN'S SOLUTION

It soon came clear to Fleury SA's engineers that the desired improvement could be obtained by replacing the existing satellite roller screw, specifically with a THK brand



The Fleury transfer line for the production of movement parts. ●THK's Ball Screws optimize productivity. Source: Fleury SA

ball screw drive. In order to define the specifications of the desired components, Bachofen's THK specialists were included in the complex design process. Their recommendations, based on decades of experience using THK technology, make a valuable contribution: they allowed the correct precision grade to be determined with a high degree of accuracy, which ultimately resulted in the desired improvement in hysteresis due to the thread's grinding pattern. Following the relaunch of the new processing module, Bachofen will promote long-term supply capacity with a supplier agreement.

«Bachofen's product specialists were able to provide excellent support to our development team. This helped us to quickly achieve our goal.»

Dominik Isler,
Managing Director of Fleury SA

Project technology partner



BACHOFEN

INDUSTRIELLE AUTOMATION