

# Rauch Spanplattenwerk, Germany



The Profibus multiturn absolute encoder from Leine & Linde mounted on the squirrel-cage geared motor makes sure that the rake is always in the correct position in the rake stacking.

## Absolute encoders ensure high dimensional accuracy

Rauch Spanplattenwerk (the Rauch chip boards factory) in Germany, has been using automatic production equipment from a Flensburg machine-building and plant-engineering company since 1998. These installations have also been equipped with high-resolution optical absolute encoders from Leine & Linde since 2002. Despite many years of continuous operation, not a single encoder has ever failed.

### The Rauch chip boards factory

Rauch Spanplattenwerk, founded in Markt Bibart in the centre of Franconia in 1959, has 170 employees and produces every year more than 500,000 cubic metres of chip boards made of untreated fresh wood from sustainable forestry and untreated rests from timber mills and carpenters' workshops. The chip boards are used for the production of low-pollutant, harmless-to-health beds, cupboards, wardrobes, doors, floors, wall and ceiling panels and table-tennis boards. Development activities over decades in the company-owned research laboratory have led to extremely fine, highly compressed surfaces, which enable direct printing or coating with water lacquers. Used wood is used exclusively for the environmentally acceptable generation of thermal energy.

### Satisfied user

The master-electrician Rainer Meier, responsible for the electrical maintenance of the end finishing line at Rauch, is confronted with the effects of the extremely harsh environmental conditions every day. All the more does he appreciate the excellent resistance of the encoders to the constantly present fine wood-dust and the vibrations on the motors.

Rainer Meier appreciates the 100 per cent availability performance of the optical absolute encoders from Leine & Linde, experienced so far. This avoids costly production outages which, unfortunately, are occasionally caused by other sensors and especially by mechanical components. Mr Meier sees the main advantages of the Profibus encoders in the fact that no long sensor cables and no evaluators are required and that there is no interference with parasitic voltages. For the experienced maintenance specialist, the excellent service and competent advice from the responsible sales engineer were also a very positive experience, which he is missing with most manufacturers of automation components.



Master-electrician Rainer Meier, Rauch, and sales engineer Alexander Tewes, Leine & Linde, stand in front of an automatic order batching system for chip boards. The end finishing line runs 7,800 hours per year in a three-shift operation from Monday to Sunday.





**Company:** Rauch Spanplattenwerk  
**Location:** Markt Bibart, Germany  
**Production:** Chip boards  
**Employees:** 170 people  
**Production capacity:** More than 500,000 cubic metres/year