Lenze AC Tech **INDUSTRYFOCUS**

Material Handling

Customer: **Edge Banding Machine Builder**
Application: **Edge Banding Machine**
Product Used: **PositionServo and SMD/SC Drive**

PositionServo & SMD/SC Drives Clean Up Sticky Situation

Edge banding is a tricky process. It involves applying a decorative or protective surface to the edges of products made from compressed wood chip and resin board materials. The applied surface material is often wood-effect plastic on a roll that must be handled carefully due to its weak and brittle properties. The edge-banding machine prepares the wood surface, unrolls the edge material, applies the glue and then compresses the glued strip to the edge. It then cuts and finishes the ends of each edge.

A combination of **Lenze-AC Tech** drives provides a pitch perfect solution. Acting in tandem, the **PositionServo** drive precisely controls the positioning while the **SMD/SC** inverter drive controls the speed, synchronizing the multiple operations of this complex machine perfectly.

Two servo axes follow a master encoder signal; the two **PositionServo** drives electrically replicate a drive shaft and gearing in order to match a synchronous fixed speed ratio when applying the edge material. The speed ratio is logged as a parameter within the control logic of the respective drives. Servo control ensures there is no slippage as belts apply the edge material.

The **SMD/SC** drives complete the package by controlling the standard AC motors that drive the unwinding of the edge material and the conveyer belt that moves the boards into position. **SMD/SC** and **PositionServo** prove a perfect team to tackle this sticky situation.

Benefits of PositionServo & SMD/SC

- Electronic Shaft Following
- Easy to Use System
- Inverter & Servo Drive Compatibility
- Intuitive Setup & Programming
- Precise Positioning Capability
- Servo Automation at a Highly Competitive Price

PositionServo, SC Drive