

## Schaeffler Global Technology Solutions

### PVB film production

EVERLAM, Germany

### Safeguarding Production through Online Condition Monitoring with FAG ProCheck

EVERLAM manufactures high-quality polyvinyl butyral (PVB) film for the production of laminated safety glass for the construction and automotive sectors. EVERLAM's headquarters and technology center are based in Mechelen, Belgium. The PVB film production facility, which is certified according to ISO 9001, is located in Hamm, Germany, and has been manufacturing PVB film for more than 25 years (since 1989).

#### Challenge for Schaeffler

Damage to rotors in electric motors and rolling bearings that was detected too late caused unplanned production stoppages at the Hamm plant. These downtimes led to increased maintenance work, higher costs, and production losses. The objective was to prevent such failures and ensure the highest possible level of delivery reliability.

#### Schaeffler Solution

In cooperation with its sales partner RÖCO, Schaeffler recommended that EVERLAM implement online vibration monitoring of production-critical assemblies using the FAG ProCheck online monitoring system. As a result, five systems were installed which continuously provide data about the machine's current condition based on 67 measurement points. The Schaeffler Condition Monitoring Service team analyzes and evaluates the data via remote access.



#### Technical Information about the Plant

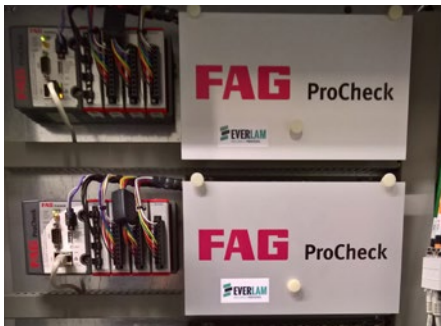
##### Production facility:

Production of PVB film

##### Monitored variable-speed components:

- Gearbox
- Electric motors
- Pump and fans





FAG ProCheck online condition monitoring system



Internal and external sensors of the gearbox



Schaeffler Condition Monitoring Service

## Customer Benefit

Through continuous vibration measurements with FAG ProCheck and Schaeffler's regular status reports, EVERLAM can detect incipient damage to gearboxes, electric motors, pumps, and fans at an early stage.

Necessary maintenance measures can be planned and implemented in good time. Unplanned downtimes and additional costs are therefore prevented, and production is safeguarded.

This means that failures, for example of a main extruder motor, which would have led to a five-day production line stoppage in the past, are now prevented.

The benefits of the Schaeffler solution for EVERLAM are twofold:

Machine availability is safeguarded and maintenance processes are optimized.

## What's special

Schaeffler and its sales partner RÖCO developed the optimum solution for EVERLAM that meets the high requirements for safeguarding production.

Thanks to the data analysis carried out by Schaeffler vibration experts with a certification according to DIN ISO 18436-2 category III, EVERLAM can use Schaeffler's comprehensive expertise in machine monitoring and immediately receives recommended actions if irregularities are detected.

### Technical Information about the Solution

#### Monitoring system:

FAG ProCheck system with 16 channels:  
5 pieces

#### Sensorik:

ICP accelerometers: 67 pieces

#### Communication:

- External: Remote server
- Internal: TCP/IP

#### Additional signals:

- Speed
- Load