INOGEC

CASE STUDY

Keeping biocomposite panel production in step with demand.

To help Annexair keep up with rising demand, INOGEC designed two custom automated lines dedicated to panel bonding and assembly.

CLIENT	APPLICATION	SOLUTION
Annexair	Biocomposite panel manufacturing	Two independent production lines



2
INDEPENDENT LINES

3
LAYERS PER PANEL

THE CHALLENGE

Increase throughput while using less material per panel.

Annexair had developed its own manufacturing process. As demand grew, the company needed to produce panels faster and use less material per panel while maintaining the properties of the finished product.

THE OBJECTIVES

01 **Increase production throughput**

02 **Reduce material use per panel**

03 **Maintain the properties of the finished panel**

04 **Return offcuts to the process**

THE SOLUTION

Two lines designed around Annexair’s process.

The two lines operate independently. One bonds the layers of the multi-density panel, and the other assembles the panels.

01

Multilayer bonding

The first line bonds three layers to form a panel with varying densities.

02

Panel assembly

The second line is dedicated to panel assembly.

03

Handling and finishing

Vacuum manipulators move the panels. Planing creates a smooth surface.

04

Offcut reuse

The process automatically returns offcuts to production to limit material waste.

THE COLLABORATION

About a decade of developing production equipment together.

Annexair and INOGEC have worked together for about a decade to develop equipment for the process. For this generation, Annexair defined the requirements for the process and finished panel. INOGEC translated them into two automated lines.

Discuss a similar application ›

View the case study online ›

Open the video on YouTube ›