

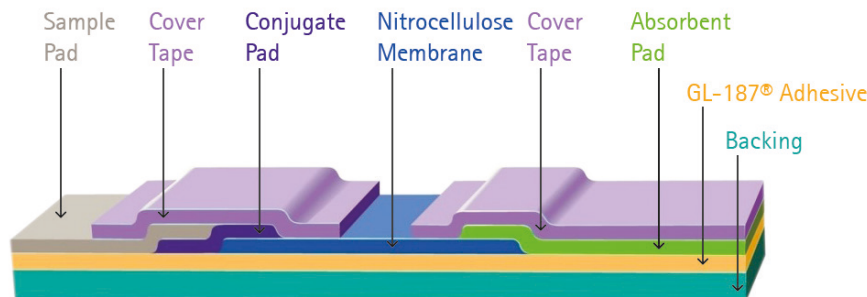
Diagnosics: pressure-sensitive adhesives and components

For assay-based lateral flow test strips and biosensors.



Bonding solutions for biosensors, microfluidic devices and dry chemistry tests

As one of the market leaders, Lohmann's Bonding Engineers formulate, manufacture, coat and die-cut high-precision adhesive solutions for clinical and diagnostic products for over 25 years. This extensive knowledge of adhesive tape development combined with comprehensive die-cutting capabilities shortens our customer's development cycles and increases flexibility in their production processes.



Overview:
Applications of Lohmann bonding solutions in diagnostic devices and lateral flow test strips.

Backing Cards, Cover Tapes and Hydrophobic Coatings

We provide bonding solutions for various applications in different layers within diagnostic devices and lateral flow test strips.

GL-187® is Lohmann's proprietary adhesive tape scientifically formulated to join strip and device components – from absorbent, wicking and conjugate pads to nitrocellulose membranes and custom substrates.

Thermoplastic materials include

- 0,254 mm (10 mil) and 0,381 mm (15 mil) white polystyrene
- 0,254 mm (10 mil) and 0,381 mm (15 mil) white vinyl (pvc)
- 0,254 mm (10 mil) sustainable backing material
- 0,127 mm (5 mil) and 0,254 mm (10 mil) white polyester

Sub-Assembly Services

Backing cards can be pre-laminated with:

- Nitrocellulose
- Conjugate pads
- Sample pads
- Active membranes

Cover tapes equip absorbent, conjugate, membrane and sample materials with a protective top and can be custom-printed for branding and trade names, directional arrows and stop lines.

Lohmann backing materials create a rigid platform for test component assembly that is not interfering with the chemistry of the assay. Our proprietary adhesives are the worldwide standard for lateral flow devices and can be customized with back-splits for easy liner removal. Available in card or roll form.

For dry chemistry strips, with or without adhesive zones for urine and water testing, there is a hydrophobic coated backing product variant available, offering excellent water- and dirt-repellent properties.

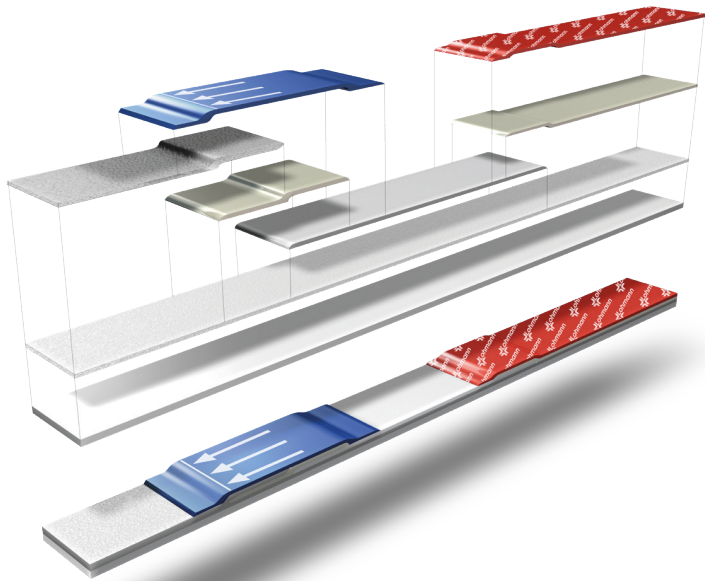


Lohmann offers a wide range of high precision die-cutting capabilities – also under cleanroom conditions.



We provide innovative solutions in roll or die-cut formats and help you integrate these solutions into your processes.

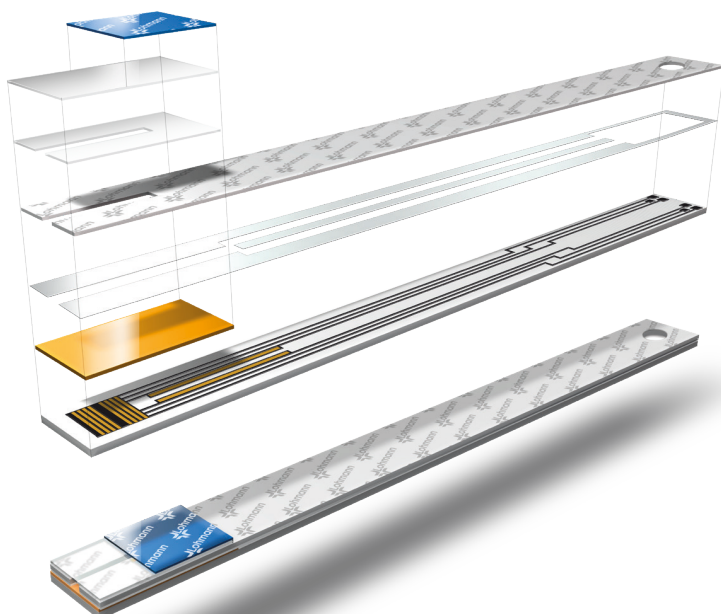
Your benefits – biosensors & lateral flow test strips



Lateral Flow

Your benefits:

- Over 25 years of experience in lateral flow applications
- Flexibility in function with different adhesive and material combinations
- Non-cytotoxic adhesive tapes available
- Printed and un-printed cover tapes
- Various backing materials in different thicknesses
- Custom-made to your specifications
- Adaptable presentation in rolls and die-cuts



Biosensors

Your benefits:

- Flexibility in function with different material combinations
- Non-cytotoxic adhesive tape available
- Different sensor components available
- Spacer-tapes, double-sided tapes, printed and unprinted cover tapes
- Adaptable presentation in rolls and die-cuts

Our Services – From Prototype to Full Scale Production

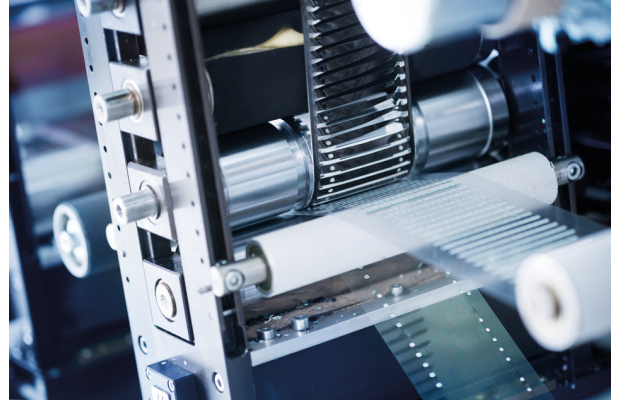
Lohmann's Bonding Engineers cover the entire value chain – from the first concept through material selection, product development, design and testing to the final product. Quality assurance is essential to guarantee an error-free and smooth function: Geometrically, with tolerances in a micrometer range, as well as functionally.

Various state-of-the-art facilities are available for the volume production of high-precision die-cuts.

Our die-cut manufacturing possibilities:

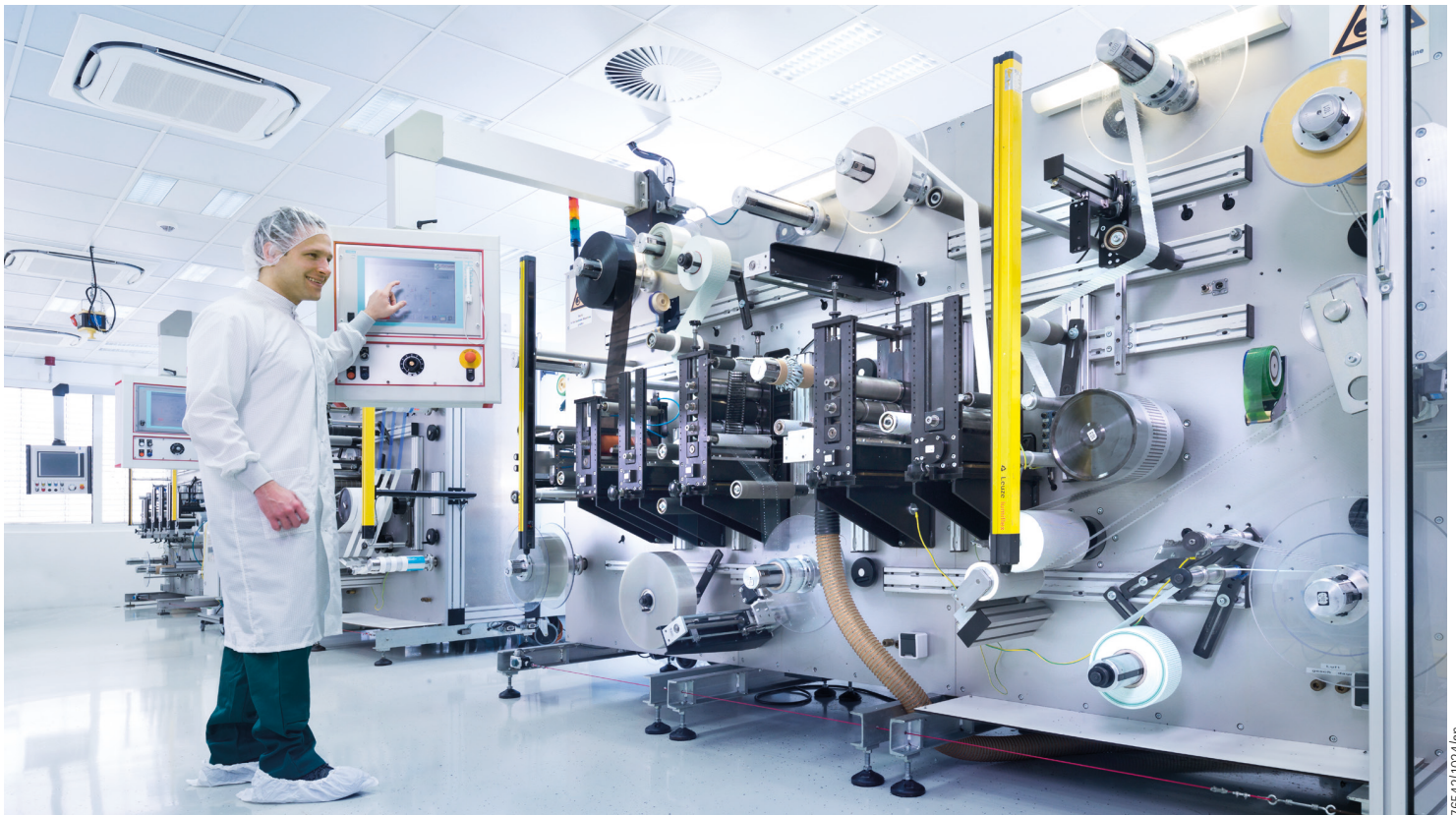
- Flatbed die-cutting (wide range of materials)
- Rotary die-cutting (low tolerances, multilayered geometries, inline measurements and printing)
- Full metal dies (very narrow tolerances)
- Laser cutting (precise die-cuts roll-to-roll)

Cleanroom manufacturing is possible in our Class 8 cleanrooms at locations in Europe and the USA.



Your Partner around the Globe

Lohmann manufactures, coats and converts a wide range of pressure-sensitive adhesives at its state-of-the-art facilities in Europe, USA and Asia.



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 **Lohmann**
The Bonding Engineers