

ALT Technologies

Your Cutting-Edge Solutions Partner

Cutting-Edge Solutions Built to Last

Our custom-made, die-cut and printed solutions can be permanent or removable, they can seal, adhere or protect, whichever way you need them to.

Combined Capabilities Resulting in Unique Products

Designed for each application with a focus
on **quality, durability** and **cost efficiency**.

With extensive material and adhesive
knowledge, we create customer-driven
solutions.

ALT Technologies Chihuahua



6,000 sqm Greenfield Investment

Production: Durable Labels, Airbag Covers and Wraps.



ALT Technologies Chihuahua

Capabilities installed to offer high quality products and just in time deliveries.

Flexo Printing

Die Cutting

Industrial Sewing

Ultrasonic Welding



ALT Technologies Chihuahua



Lean Management



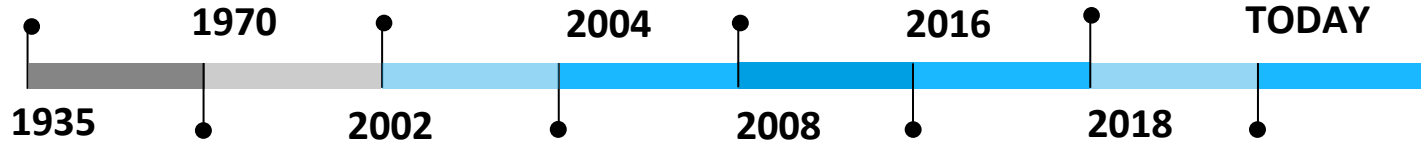
ALT Technologies' History

R.S. Avery manufactures
the world's first
self adhesive labels

ALT Technologies was
founded as an
independent company

ALT Opened Facility
in Jiading (Shanghai),
China

ALT Opened Facility
in Chihuahua,
Mexico



Avery Dennison's
daughter company,
predecessor of ALT,
founded for label division

ALT Opened Facility
in Lupeni, Romania

ALT Opened Office in
the USA entering the
American market

ALT is expanding its
portfolio further

ALT Technologies

Our goal is to be the worldwide market leader in quality and customer satisfaction.

Corporate headquarters in
Utrecht, the Netherlands

Geographically close to our customers with facilities in
Europe, Americas and Asia

Converting and material
experience for
50+ years

Just In Time
delivery with
100/100

IATF standards and APQP project management



Global Presence

We are geographically close to our customers in strategic locations



Cost-Effective Solutions



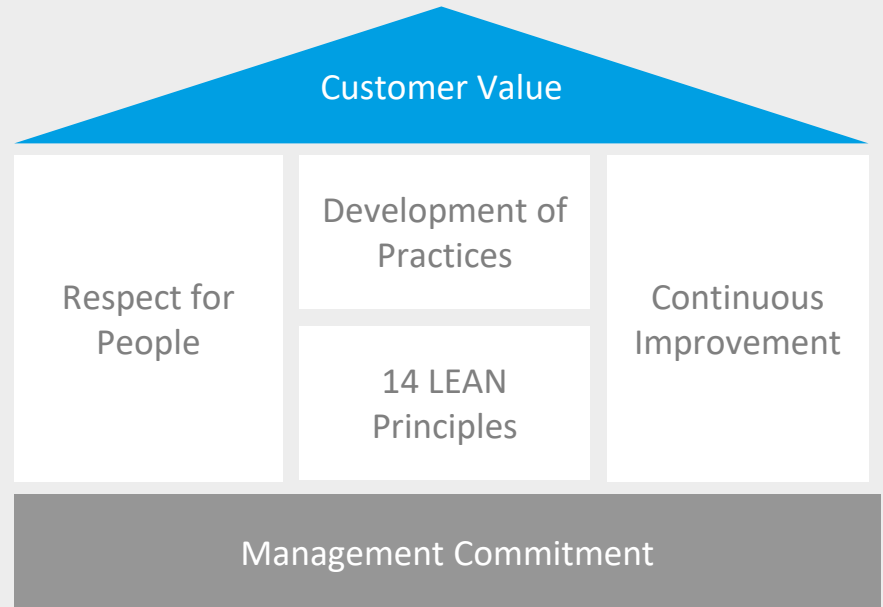
Total Quality Management

Our Quality System embeds the LEAN Management approach embracing the 14 LEAN Principles.

We deliver the unparalleled value to the customer by offering the highest quality at the lowest cost.

Tools and techniques we use include:

- 6S workspace organisation
- Hoshin Kanri strategy deployment
- A3 and 8D problem-solving
- Kanban
- Visual management
- Total Productive Maintenance (TPM)
- Value Stream Analysis (VSA)
- Kaizen continuous improvement



High Quality, High Volume and On Time Delivery

In 2019		
524.587.953	4.647	2
Amount of parts delivered	Amount of deliveries	PPM's

In 2020*		
476.805.265	7.182	2
Amount of parts delivered	Amount of deliveries	PPM's

*[Read our article online](#) about how ALT has been dealing with COVID19 effects and plans for the future

Highest Global Quality Standards

LEAN management philosophy

Very strong quality cultures

Continuous improvement policies

Just in time (JIT) logistics



Advantages of Working with ALT



50+ Years

Converting and Material
Experience



100/100

Just in Time and High Volume
Delivery



Application Specific

Engineering



Global

Geographically Close to You



Innovative

Research and Development



Cost-Effective

And Hassle-Free Solutions



IATF, ISO, UL, CSA

Standards and APQP Project
Management

Our Happy Customers



All major Tier 1 automotive
and high-end home appliance
manufacturers are
among our customers



Premium Solutions

ALT Technologies develops using
best-in-class capabilities and
production processes

Best-in-class Capabilities



Precision
Die-Cutting



Custom-Printing



Adhesive Application and
Laminating



Stitching



Ultrasonic Welding



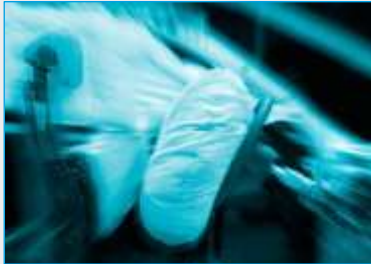
In-House Assembly

Product Portfolio

It is most likely that we have already developed a product for your problem.

If not, then we are ready to make it happen.

Where to find ALT Technologies' products?



Occupant Safety Industry



Battery + HEV



Climate Control



Gearbox



Mirrors & Windshield



Lighting



Advanced Driver Assistance
System (ADAS)



Interior

ALT Automotive Product Solutions



Airbag Covers



Curtain Airbag Wraps



Protective Components



RFID and/or Traceability Labels



Instruction & Warning Labels



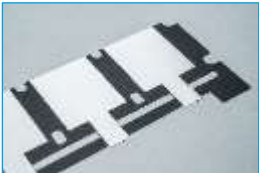
Thermal Transfer Ribbons



Thermal Interface Materials



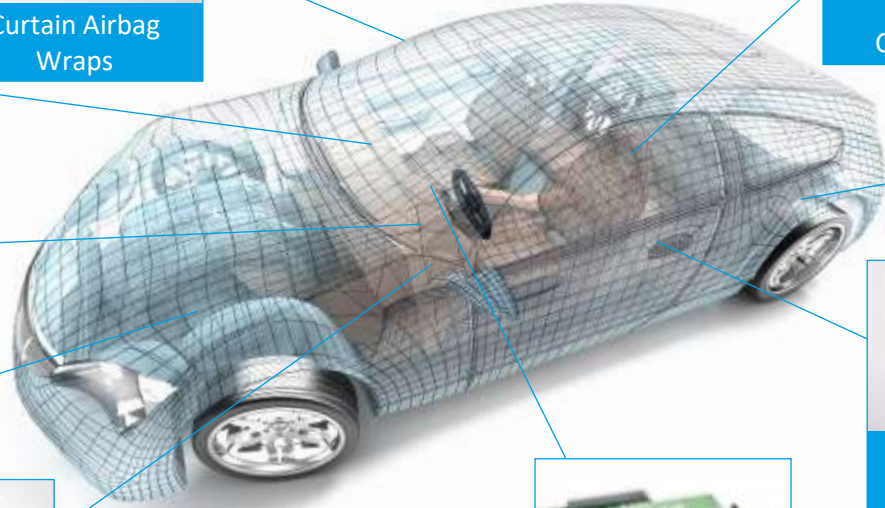
Light Diffusion Label



Insulators and EMI Shielding



Inflator Seals



ALT Home Appliances Product Solutions



RFID and/or
Traceability Labels



POS and
Marketing Labels



Rating Plate
Labels



Instruction &
Warning Labels



Thermal Transfer
Ribbons



Energy Labels



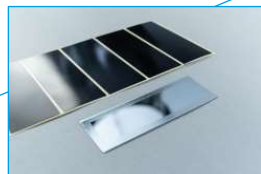
Self-Adhesive
Legends



Thermal Interface
Materials



Protective
Components



Logo Background
Label



Light Diffusion
Label

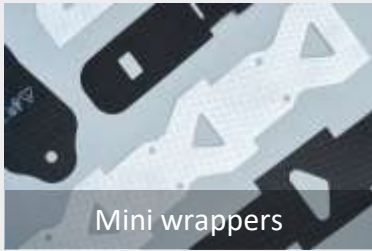


Insulators and
EMI Shielding



Complex Die-Cutting Solutions

Our best-in-class capabilities create
future-proof products



Mini wrappers



Protective components



Felt airbag cover



Light diffusion labels



Inflator seals

Complex Die-cutting Solutions

Our knowledge and experience in material selection along with our efficient production process enable us to die-cut material such as :

- stainless steel
- non-woven plastics
- fabrics
- self-adhesive materials
- and more

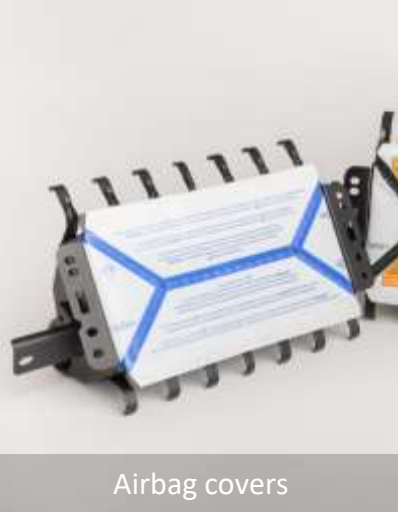
To be combined with the capabilities: adhesive application, in-house assembly, stitching or ultrasonic welding

Custom-Printing Solutions

Our best-in-class capabilities create
future-proof products



POS marketing labels



Airbag covers



Curtain airbag wraps



Mini wrappers

Custom-Printing Solutions

Best-in-class solutions include flexo, digital, silkscreen printing on various materials including non-woven fabrics such as :


- Polypropylene (PP)
- Polyester (PET)
- Polyamide (PA)
- Transparent Polyethylene (PE) film

To be combined with the capabilities: adhesive application, stitching or die-cutting

Stitching & Ultrasonic Welding

Our best-in-class capabilities create
future-proof products

Stitching & Ultrasonic Welding


A close-up photograph of a dark grey, rectangular felt airbag cover. The cover has a textured, fibrous surface and appears to be made of two layers of material joined together.

Felt airbag cover stitched or welded

A wide range of machines are available within all the plants of ALT Technologies.

For close, connect or bond materials such as non-woven, plastic film or felt.

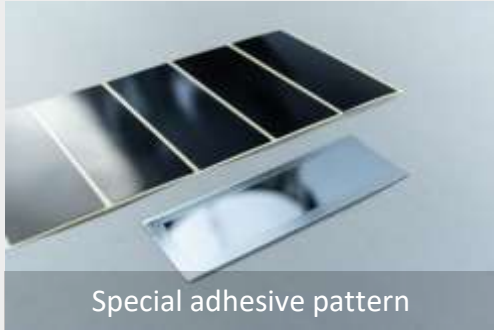
To be combined with the capabilities: adhesive application, stitching or die-cutting

Two photographs showing non-woven materials. The left image shows a white, textured non-woven fabric with a dark brown, square patch in the center. The right image shows a white, folded non-woven material with a dark brown, rectangular patch on the inner surface.

Non-woven examples welded or stitched

Adhesive Application Labels & RFID

Our best-in-class capabilities create
future-proof products



Special adhesive pattern



Various materials



Warning & Instruction labels



Seal inside inflator



Adhesive product examples



KAB cover with tape

Adhesive Application

ALT has the possibility to apply or laminate adhesives to several products. Often integrated into our production process before parts are die-cut.

Adhesives for:

- Harsh and long-lasting environments
- Removable adhesives, to peel off without residue
- Outdoor applications
- Indoor applications
- High and low temperature ranges
- Low Emission and odour (VOC and FOG VDA 278)



Warning & Instruction labels



Traceability & Barcode labels

Label Solution

With our best-in-class capabilities ALT Technologies is a leader in

- warning
- instructions
- traceability
- barcode labels

To be combined with the capabilities: adhesive application, die-cutting, printing, laminating



RFID antennas



RFID label on curtain airbag wrap

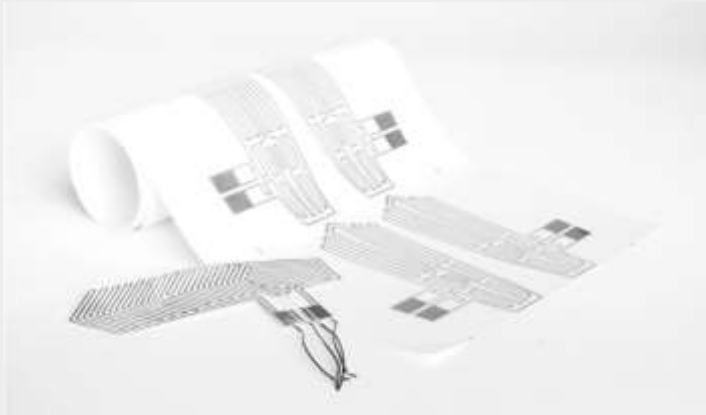
RFID Label Solutions

Combining RFID tag with barcode or traceability label increases accuracy and reliability.

Further benefits include:

- Identification
- Tracking
- Stock Optimization
- Better procurement management
- Process Optimization
- Time/cost saver

Printed Electronics



Conductive Ink FPC



Conductive Ink FPC

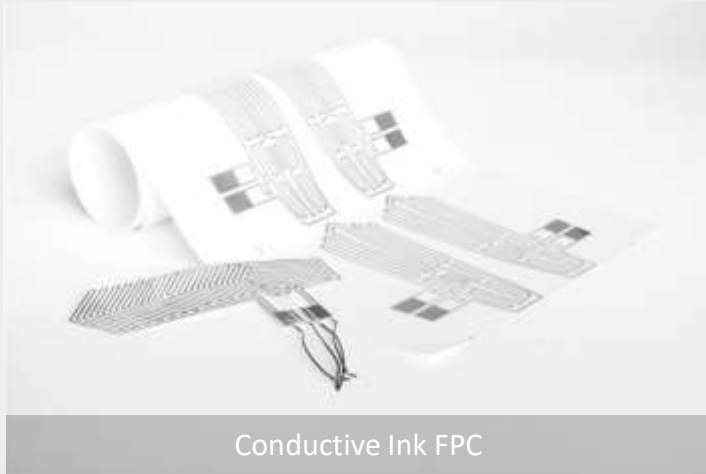
Conductive Ink Flexible Printed Circuit / Printed Electronics Advantages

Our best-in-class printing expertise enable circuit printing for where it matters.

Conductive ink benefits include:

- High conductivity
- Design freedom & improvement
- Flexibility
- Light weight
- Cost reduction
- Environmentally friendly

Principles and Materials



Conductive Ink FPC



Conductive Ink FPC

Printed electronics principles :

Deposit multiple layers of conductive ink using printing techniques on a thin flexible substrates.

This technology can replace the current rigid PCB.

Conductive inks :

Silver, Carbon, Copper, etc ...

Substrates :

PET, PC, PI, PU, PEN, Glass

Examples and Applications

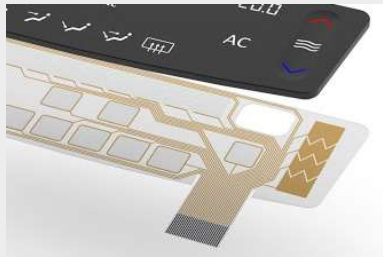


Heaters



Automotive applications :

HMI (Human Machine Interface), Capacitive Touch screen, Battery (T° Sensors and heaters), Seat Heater, Armrest Heater, Interior Lighting, ADAS, Lidar, Camera, Steering Wheel, Membranes Switches



Human Machine Interface

Non-Automotive Applications :

Connected devices, VR/AR Glasses, Medical sensors, RFID, Antennas, IoT, HMI in Home Appliances, Wearables

Electronics Protection



Microwave Absorbers



EMI Tape

EMI Shielding

Safeguarding solutions either from external sources disrupting the component or from preventing signals from escaping and damaging surrounding electronics

Product solutions include:

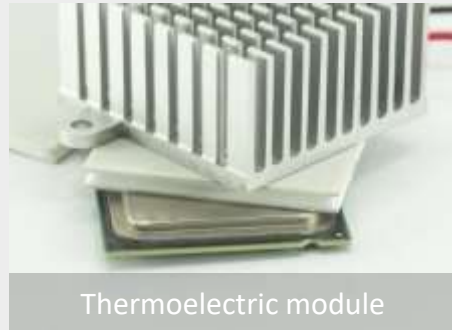
- EMI Tape & Foil
- EMI Gasket
- Microwave Absorbers
- EMI Foam



Thermal Pad on PCB board



Thermal Grease



Thermoelectric module

Thermal Interface Materials

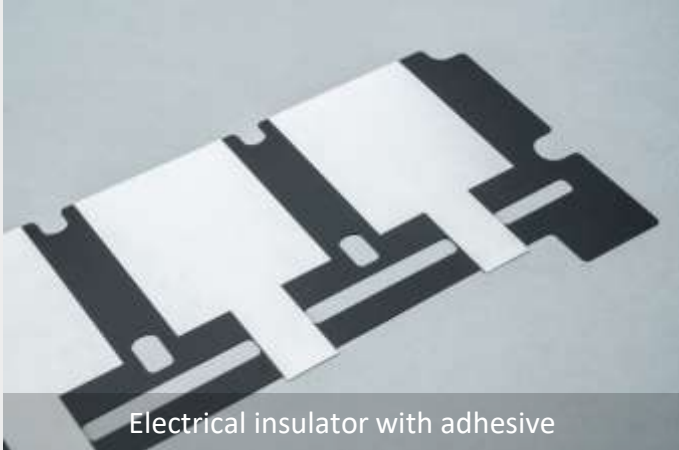
Dedicated solutions to control heat dissipation selecting the most appropriate materials the most cost-effective way.

Product solutions include:

- Thermal Pad
- Thermal Tape
- Thermal Phase Change Material
- Film Heater
- Grease
- Thermo Electric module



Gasket on car part



Electrical insulator with adhesive

Insulators

Our knowledge in complex die-cutting parts and in adhesive applications enable us to propose specific insulators meeting your technical request

Tailor-made solutions to protect your system, including:

- Electrical insulator
- Electrical insulator with heat dissipation
- Heat insulator

Finding Future-Proof Solutions Today

If you do not see your product solution listed, we are ready to develop it for you.

ALT Technologies meets customer requirements to secure an effective and innovative future.

Learn more [on our website](#) and [sign up for our emails](#)!

Any questions? Please get in touch!

Thank You!

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ALT Technologies

Cutting-edge Solutions

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